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Please read the following safety notices before installing or using this phone. They are crucial for the safe and reliable operation of the device.

- Please use the external power supply that is included in the package. Other power supplies may cause damage to the phone, affect the behavior or induce noise.
- Before using the external power supply in the package, please check with home power voltage. Inaccurate power voltage may cause fire and damage.
- Please do not damage the power cord. If power cord or plug is impaired, do not use it, it may cause fire or electric shock.
- The plug-socket combination must be accessible at all times because it serves as the main disconnecting device.
- Do not drop, knock or shake it. Rough handling can break internal circuit boards.
- Do not install the device in places where there is direct sunlight. Also do not put the device on carpets or cushions. It may cause fire or breakdown.
- Avoid exposure the phone to high temperature, below  $0^{\circ}$ C or high humidity. Avoid wetting the unit with any liquid.
- Do not attempt to open it. Non-expert handling of the device could damage it. Consult your authorized dealer for help, or else it may cause fire, electric shock and breakdown.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it. Wipe it with a soft cloth that has been slightly dampened in a mild soap and water solution.
- When lightning, do not touch power plug or phone line, it may cause an electric shock.
- Do not install this phone in an ill-ventilated place.
- You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents.

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# 1 Introducing F52 VOIP Phone

### 1.1 Thank you for your purchasing F52

Thank you for your purchasing F52, F52 is a full-feature telephone that provides voice communication over the same data network that your computer uses. This phone's functions not only much like a traditional phone, allowing to place and receive calls, and enjoy other features that traditional phone has, but it also own many data services features which you could not expect from a traditional telephone.

This guide will help you easily use the various features and services available on your phone.

# 1.2 Delivery Content

Please check whether the delivery contains the following parts:

The base unit with display and keypad

The handset

The handset cable

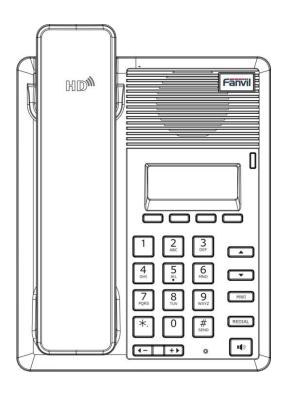
The Ethernet cable

The power supply

Attentions: The F52 may cause damage if you do not use a power adapter with F52. Power adapter specifications due to different areas or differentiated shipments, if the product supplied power adapter can not be used locally, please consult your local dealer.

The user manual (you may download from our website)

Here is the appearance of IP Phone description:



# 1.3 Keypad

Key	Key name	Function Description
A	Navigation	Navigation key assist users for operating more convinient.
REDIAL	Redial	<ol> <li>In the hook off/hands-free mode, use the key to dial the last call number;</li> <li>In stand-by mode, it has a function to check the Outgoing Call.</li> <li>You could also find the specify contacts in phone book/call records, and use this number for quick dialing, press this button, you can dial quickly.</li> </ol>
1 (1)	Hands-free	Make the phone into hands-free mode.
	Indicate light	This light will flash when there is a missed call
Soft key 1/2	2/3/4	Keys combination, include functions such as History/Directory/DND/Menu/Del/Redial/Sen d/ Quit/Answer/Divert/Reject/Hold/Transfer/Co

nf/Close and so on.

1 2 3
4 5 6 Digital Reyboard keyboard \* 0 # 0 # 0

# 1.4 Port for connecting

Port	Name	Description
	Power swtich	Input: 5V AC, 1A
	WAN	10/100M Connect it to Network
	LAN	10/100M Connect it to PC
	Headset	Port type: RJ-9 connector

# 1.5 Icon introduction

Icon	Description
<b>→</b>	Call out
<b>《念</b> 》	Call in
<u> </u>	Call hold
AA	Auto answer
<u> </u>	Call mute
<u> </u>	Contact

DND	DND(Do not Disturb)
	2.12 (20 1101 2.15141.5)
••	In hand-free mode
6	In hook mode
$\boxtimes$	SMS
Ţ	Missed call
	Call forward

# 1.6 LED Status introduction

Table 1 Power Indication LED

LED Status	Description
Steady red	Power on.
Fast Blinking red	There is an incoming call.
Off	Power off.

# 2 Initial connecting and Settings

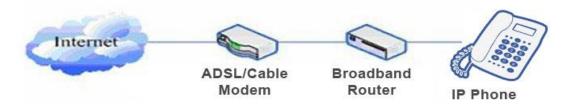
## 2.1 Connect the power and network

#### 2.1.1 Connect to network

Please make sure your environment already have broadband internet access capability during this step.

#### 1. Broadband Router

Connect one end of the network cable to the F52's WAN port the other end is connected to your broadband router's LAN port, so that the completion of the network hardware connections. In most cases, you must configure your network settings to DHCP mode. The details setting mode please refer to 2.2.1—Network Settings.



#### 2. No broadband router

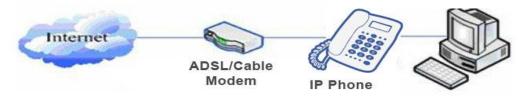
Connect one end of the network cable to the F52's WAN port, the other end is conneted to your broadband modem's LAN port, so that the completion of the network hardware connections. In most cases, if you are using a TV cable broadband, you must configure your network settings to DHCP mode: if you are using ADSL, you must set your F52 to PPPOE mode. The details setting mode please refer to 2.2.1- Network Settings.



#### 3. Worked as a broadband router

F52 have broadband routing capability, as long as the F52 properly connected to the WAN port on the broadband modem and connect your computer or other Internet-capable devices connected to the F52's LAN port,then you can use the phone's ability to connect to the Internet

broadband routing. The details setting mode please refer to 2.2.1-Network Settings.



### 2.1.2 Power adapter connection

During this step, please make sure your power connector match the power outlet, meanwhile, both voltage and electric current are also comply with the work phone.

- 1. Plug power adapter to power socket.
- 2. Plug power adaptor's DC output to the DC5V port of F52 to start up.
- 3. There will be displayed black line and "INITIALIZING" on the screen. After finishing startup, phone will show greeting, current date and time and so forth.
  - 4. If phone has registered to the server, you can place or answer calls

#### 2.2 Basic Initialization

F52 is provided with a plenty of functions and parameters for configuration. User needs some network and VoIP knowledge so that user could understand the meanings of parameters. In order to make user use the phone more easily and convenient, there are basic configurations introduced which is mandatory to ensure phone calls.

# 2.2.1 Network Settings

During setting network of the phone please make sure that network is connected already. F52 uses DHCP to get WAN IP configurations, so phone could access to network as long as there is DHCP server in it. If there is no DHCP server available, phone has to be changed WAN network setting to Static IP or PPPoE.

#### Setting PPPOE mode(For ADSL connection)

- 1. Get PPPoE account and password first.
- 2. Press Menu->Settings->Advanced Settings, then enter passwords, and choose network ->WAN settings->Connection Mode, enter and choose PPPoE through navigation keys and press the Save key.
- 3. Press Back, then choose PPPoE Set, press Enter.

- 4. The screen will show the current information. Press Del to delete it, then input your PPPoE user and password and press Save.
- 5. Press Back six times to return to the idle screen.
- 6. Check the status. If the screen shows "Negotiating..." it shows that the phone is trying to access to the PPPoE Server; if it shows an IP address, then the phone has already get IP with PPPoE.

#### Setting Static IP mode(Static ADSL/Cable, or no PPPOE/DHCP network)

- 1. Prepare the network's parameters first, such as IP Address, Net mask, Default Gateway and DNS server IP address. If you don't know this information, please contact the service provider or technician of network.
- 2. Press Menu->Settings->Advanced Settings, then enter passwords, and choose network ->WAN settings->Connection Mode, enter and choose Static through navigation keys and press the Save key.
- 3. Press Back, then choose Static Set, press Enter.
- 4. The screen will show the current information, and then press Del to delete. Input your IP address, Mask, Gateway, DNS and press Save to save what you input.
- 5. Press Back six times to return to the idle screen.
- 6. Check the status, the screen shows "**Static**" .the screen shows the IP address and gateway which were set just now, if the phone could display the right time, it shows that Static IP mode takes effect.

#### **Setting DHCP mode**

- 1. Press Menu->Settings->Advanced Settings, then enter passwords, and choose network ->WAN settings->Connection Mode, enter and choose DHCP through navigation keys and press the Save key.
- 2. Press Back six times to return to the idle screen.
- 3. Check the status, the screen shows "**DHCP**", If the screen shows the IP address and gateway which were set just now, it shows that DHCP mode takes effect.

# 3 The basic function of F52

# 3.1 Making a call

#### 3.1.1 Call Device

You can make a phone call via the following devices:

- 1. Pick up the handset, C icon will be showed in the idle screen.
- 2. Press the Speaker button, icon will be showed in the idle screen.
- 3. Press the headset button if the headset is connected to the Headset Port in advance. The icon will be showed in the idle screen.

You can also dial the number first, and choose the method you will use to speak to the other party.

#### 3.1.2 Call Methods

#### 1. Speed Dial

In standby mode, you simply enter your number to dial and press [#] or press [Redial] to make a call

2. Hook dialing

Pick up the handset and hear dial tone, you can start dialing. After entering the destination number, press the [#] key, F52 can immediately start connecting with each other. When you hear the beep ... beep ... long beep, the other phone started ringing, until the other party pick up the handset or use the speakerphone (time of the call is displayed on the screen), you can start talking. When the call is completed, replace the handset hang up the call.

3. Hands-free Dialing

Press the speakerphone key and hear a dial tone, you can start dialing. After entering the destination number, press the [#] key, F52 can immediately start connecting with each other. When you hear the beep ... beep ... long beep, the other phone started ringing, until the other party pick up the handset or use the speakerphone when you can start talking. When the call is finished, press the Speakerphone key to end the call.

4. Using the Redial button
If you try to call over the telephone, you can press [Redial] key to call a

recently dialed number one. Note that you restart the phone, the system will clear the call log, dial [Redial] key at this time will be invalid.

## 3.2 Answering a call

#### Answering an incoming call:

- 1. If you have no other line telephone, lift the handset using, or press the Speaker button/ Answer softkey to answer using the speaker phone.
- 2. If you are on a call currently, press the answer softkey. During the conversation, you can alternate between Headset and Speaker phone by pressing the corresponding buttons or picking up the handset.

#### 3.3 **DND**

Press DND softkey to active DND Mode. Further incoming calls will be rejected and the display shows: DND icon. Press DND softkey twice to deactivate DND mode. You can find the incoming call record in the Call History.

### 3.4 Call Forward

This feature allows you to forward an incoming call to another phone number. The display showed  $\Box$  icon.

The following call forwarding events can be configured:

Off: Call forwarding is deactivated by default.

Always: Incoming calls are immediately forwarded.

Busy: Incoming calls are immediately forwarded when the phone is busy.

**No Answer**: Incoming calls are forwarded when the phone is not answered after a specific period.

To configure Call Forward via Phone interface:

- 1. Press Menu ->Features->Enter->Call Forwarding->Enter.
- 2. There are 4 options: Disabled, Always, Busy, and No Answer.
- 3. If you choose one of them (except Disabled), enter the phone number you want to forward your call to. Press Save to save the changes.

#### 3.5 Call Hold

Press the Hold button or Hold softkey to put your active call on hold.

1. If there is only one call on hold, press the hold softkey to retrieve the call.

2. If there are more than one call on hold, press the line button, and the Up/Down button to highlight the call, then press the Unhold button to retrieve the call.

## 3.6 Call Waiting

- 1. Press Menu ->Features->Enter->Call Waiting->Enter.
- 2. Use the navigation keys to active or inactive call waiting.
- 3. Then press the Save to save the changes.

### 3.7 Call Transfer

#### 1. Blind Transfer

During talk, press the key Transf, and then dial the number that you want to transfer to, and finished by "#". Phone will transfer the current call to the third party. After finishing transfer, the call you talk to will be hanged up. User cannot select SIP line when phone transfers call.

#### 2. Attended Transfer

During talk, press the key Transf, then input the number that you want to transfer to and press Send. After that third party answers, then press Transfer to complete the transfer. (You need enable call waiting and call transfer first). If there are two calls, you can just talk to one, and keep hold to the other one. The one who is keep hold cannot speak to you or hear from you. In other way, if user wants to invite the third party during the call, they can press Conf to make calls mode in conference mode. If user wants to stop conference, user can press Split. (User must enable call waiting and three way call first).

Note: the server that user uses must support RFC3515 or it might not be used

#### 3. Alert Transfer

During the talk, press Transf firstly, and then press Send after inputting the number that you want to transfer. You are waiting for connection, now, press Transf and the transfer will be done. (To use this feature, you need enable call waiting and call transfer first).

# 3.8 Three-Way conference call

- 1. Press the Conf softkey during an active call.
- 2. The first call is placed on hold. Then you will hear a dial tone. Dial the number to conference in, then press Send key.
- 3. When the call is answered, press Conf and add the first call to the conference.
- 4. If you want to release the conference, press Split key.

### 4 Advanced function of F52

#### 4.1 Click to dial

When user A browses in an appointed Web page, user A can click to call user B via a link (this link to user B), then user A's phone will ring, after A hooks off, the phone will dial to B.

**Notice:** It needs a external software what supports click to dial.

#### 4.2 Auto answer

When there is an incoming call, after no answer time, the phone will answer the call automatically.

#### 4.3 Hotline

You can set hotline number for every sip, and then enter the dialer interface and after Warm Line Time, the phone will call out the hotline number automatically.

# 4.4 Application

#### 4.4.1 SMS

- 1) Press Menu -> Applications-> Enter-> SMS-> Enter.
- 2) Use the navigation keys to highlight the options. You can read the message in the Inbox/Outbox.
- 3) After view the new message, you can press Reply to reply the message, and use the 2aB softkey to change the Input Method, when enter the reply message, press OK, then use the navigation keys to select the line from which you want to send, then Send.
- 4) If you want to write a message, you can press New and enter message. Use the 2aB softkey to change the Input Method. When you input the message you want to send, press OK, then use the navigation keys to select the line from which you want to send, then Send.
- 5) If you want to delete the message, after view the message, press Del, then you have three options to choose: Yes, All, No.

#### 4.4.2 Memo

You can add some memos to record some important things to remind you. Press Menu->Application->Memo->Enter->Add.

There are some options to configure: Mode, Date, Time, text, Ring. When the configuration is completed, press Save.

#### 4.4.3 Voice Mail

- 1) Press Menu->Application->Voice Mail->Enter.
- 2) Use the navigation keys to highlight the line for which you want to set, press Edit, and use the navigation key to turn on the mode, and the input the number. Press 2aB softkey to choose the proper input method.
- 3) Press Save to save the change.
- 4) To view the new voicemail, Press the Voicemail softkey directly. Press Dial, then you may be prompted to enter the password, then you can listen to your new and old messages.

# **5** Other functions of F52

#### 5.1Auto Handdown

- 1. Press Menu -> Features -> Enter-> Auto Handdown -> Enter.
- 2. Set the Mode Enable through the navigation key, then set Time, unit is minute, then press Save.
- 3. When the call ends, after the time that you have set, the phone will back to the idle interface.

#### 5.2Dial Plan

- 1. Press Menu -> Features -> Enter-> Dial Plan-> Enter.
- 2. The following plans you can set: Press # to Send, Timeout to Send, Timeout, Fixed Length Number, Press # to Do BXFER, BXFER On Onhook, AXFER On Onhook. You can enable or disable each dial plan.

#### 5.3Dial Peer

- 1. Press Menu -> Features -> Enter-> Dial Peer-> Enter.
- 2. Press Add to enter the Edit interface, and then input number and destination. For example: Number:1, Destination:1234, Then press Save.
- 3. Input 1# number in the dial interface, you can dial out 1234.

#### 5.4Auto Redial

- 1. Press Menu -> Features -> Enter-> Auto Redial -> Enter.
- 2. Choose Mode Enabled or Disabled through the navigation key. If you choose Enable, you also need to set Interval and Times, and then press Save.
- 3. After enable auto redial, calling out someone, if he is in busy, it will pop up a prompt box whether to auto redial, press OK, the phone will call out him according the Interval and Times that you set.

# 5.5Call completion

1. Press Menu ->Features-> Enter->Call Completion-> Enter.

- 2. Enable the function through the navigation key, and then Save.
- 3. Call out others, if he is in busy, it will pop up a prompt Call Completion Waiting number? Press OK, when he is in idle, it will pop up a prompt Call Completion Call number? Press OK, the phone will call out the number automatically.

### 5.6Power Light

- 1. Press Menu -> Features -> Enter -> Power Light -> Enter.
- 2. Enable this function through the navigation key.

#### 5.7Hide DTMF

- 1. Press Menu -> Features -> Enter-> Hide DTMF-> Enter.
- 2. Through the navigation key to choose: Disabled, All, Delay, Last Show. When you set up a call with others and need to input the DTMF, the DTMF will show as you have set.

#### 5.8Password Dial

- 1. Press Menu -> Features -> Enter -> Password Dial -> Enter.
- 2. Enable this function, you can also set Prefix and Length. For example,

you want call out 1234567 and you set Password Dial Prefix 123 and Password Length 3, then enter the dial interface and input 1234567, and then the screen will show 123\*\*\*7.

#### 5.9Action URL & Active URI

- 1. Action URL, achieve results com from a functional understanding that end a phone Action produce a URL, Action which means the side of the phone receieves incoming(Incoming call), outgoing calls(Outgoing call), turn DND(open DND), hang up the phone(On hook), etc. To set the phone web page lists all its support of the action, each action corresponds to a user-defined URL. When generating an action the phone is issued for the URL HTTP Get, so as to achieve the purpose of reporting their actions.
  - 2. Active URI, achieve results come from a functional understanding that the remote(eg PC) to send a URL to the phone, the phone received will produce an action, such as dial, DND and so on. Enter the phone web pages PHONE->FEATURE, enter the Active URL limit IP(such as a PC IP) Push XML

Enter the web page of the phone->PHONE->FEATURE, input Push XML Server(e.g. PC'IP), then PC can push text, SMS, phonebook, advertisement,, execute etc. to phone to update the message or the phone makes an action.

#### 5.10 Push XML

Enter the web page of the phone->PHONE->FEATURE, input Push XML Server(e.g. PC'IP), then PC can push text, SMS, phonebook, advertisement,, execute etc. to phone to update the message or the phone makes an action.

# **6** The Basic Settings of F52

## 6.1 Keyboard

- 1. Press Menu -> Settings-> Enter-> Basic Settings-> Enter-> Keyboard-> Enter.
- 2. There are four items: DSS Key settings, Programmable Keys, Desktop Long Pressed, Soft Key, You can set up respectively on them. Press the key Enter to the interface, then use the navigation keys to choose the function for the key according to you want.
- 3. Press the key OK to save.

## 6.2 Screen Settings

- 1. Press Menu -> Settings-> Enter-> Basic Settings-> Enter-> Screen Settings-> Enter-> Screen
- 2. You can set Contrast, Contrast Calibration and Backlight, press Enter and use the navigation keys to set, then press the key Save.

# **6.3 Ring Settings**

- 1. Press Menu ->Settings-> Enter->Basic Settings-> Enter->Ring Settings->Enter.
- 2. You can set Ring Volume and Ring Type, press Enter and use the navigation keys to set, then press the key Save. In the Ring Type, the default system rings have nine and the custom ringtones have three that can be set through the web page.

#### 6.4 Voice Volume

- 1. Press Menu -> Settings-> Enter-> Basic Setting-> Enter-> Voice Volume-> Enter.
- 2. Use the navigation keys to turn down or turn up the voice volume, then press the key Save.

#### 6.5 Time & Date

- 1. Press Menu ->Settings->Enter->Basic Settings-> Enter->Time & Date->Enter.
- 2. You have two options to choose: Auto and Manual, use the navigation keys to choose, then press Save.

### 6.6 Greeting Words

- 1. Press Menu ->Settings-> Enter->Basic Settings-> Enter->Greeting Words->Enter.
- 2. You can enter the message and press Save, it will display in the phone screen when the phone start up.

## 6.7 Language

- 1. Press Menu -> Settings-> Enter-> Basic Settings-> Enter-> Language -> Enter.
- 2. F52 support three languages, you can use the navigation keys to choose. The default two languages are English and Chinese.

# 7 Advanced Settings of F52

#### 7.1 Accounts

Press Menu->Enter->Advanced settings, and then input the password to enter the interface, the default password is 123. You can set it through the web page. Then choose Account then press Enter, you can do some sip settings.

#### 7.2 Network

Press Menu->Enter->Advanced settings, and then input the password to enter the interface. Then choose Network and press Enter, you can do network settings, you can refer to 2.2.1 Network settings.

### 7.3 Security

Press Menu->Enter->Advanced settings, and then input the password to enter the interface. Then choose Security, you can configure Menu Password, Key lock Password, Key lock Status and whether to ban Outgoing.

#### 7.4 Maintenance

Press Menu->Enter->Advanced settings, and then input the password to enter the interface. Then choose Maintenance and press Enter, you can configure Auto Provision, Backup, and Upgrade.

# 7.5 Factory Reset

Press Menu->Enter->Advanced settings, and then input the password to enter the interface. Then choose Factory Reset and press Enter, you can choose Yes or No.

# 8 Web Configuration

## 8.1 Introduction of configuration

### 8.1.1 Ways to configure

F52 has three different ways to different users.

- Use phone keypad.
- Use web browser (recommendatory way).
- Use telnet with CLI command.

### 8.1.2 Password Configuration

There are two levels to access to phone: root level and general level. User with root level can browse and set all configuration parameters, while user with general level can set all configuration parameters except SIP (1-2) or IAX2's that some parameters cannot be changed, such as server address and port. User will has different access level with different username and password.

- Default user with general level:
  - ♦ Username: guest
  - ◆ Password: guest
- Default user with root level:
  - ◆ Username: admin
  - ◆ Password: admin

The default password of phone screen menu is 123.

# 8.2 Setting via web browser

When this phone and PC are connected to network, enter the IP address of the wan port in this phone as the URL (e.g. http://xxx.xxx.xxx/ or http://xxx.xxx.xxx.xxx/).

If you do not know the IP address, you can look it up on the phone's display by pressing Status button.

The login page is as below picture.



After you configure the IP phone, you need click save button in configuration under Maintenance in the left catalog to save your configuration. Otherwise the phone will lose your modification after power off and on.

# 8.3 Configuration via WEB

### 8.3.1 BASIC

#### 8.3.1.1 STATUS

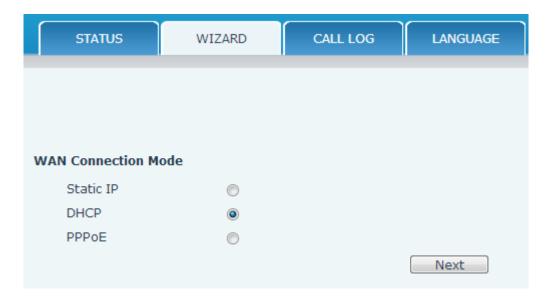
STATUS	WIZARD	CALL LOG	LANGUAGE	
Network				
WAN			LAN	
Connection Mode	DHCP		IP Address	192.168.10.23
MAC Address	00:a8:59:	cc:b2:fc	DHCP Service	Enabled
IP Address	192.168.2	2.5	Bridge Mode	Disabled
IP Gateway	192.168.2	2.1		
Accounts				
SIP Line 1	@:5060		U	napplied
SIP Line 2	@:5060		U	napplied
SIP Line 3	@:5060		U	napplied
SIP Line 4	@:5060		U	napplied
SIP Line 5	@:5060		U	napplied
SIP Line 6	@:5060		U	napplied
IAX2	@:4569		U	napplied

**Status** 

Field name Explanation
------------------------

Network	Shows the configuration information on WAN and LAN port, including the connect mode of WAN port (Static, DHCP, PPPoE), MAC address, the IP address
	of WAN port and LAN port, ON or OFF of DHCP
	mode of LAN port and bridge mod
	Shows the phone numbers provided by the SIP
Accounts	LINE 1-2 servers and IAX2.
	The last line shows the version number.

#### 8.3.1.2 WIZARD



#### Wizard

Please select the proper network mode according to the network condition. F52 provide three different network settings:

- Static: If your ISP server provides you the static IP address, please select this mode, and then finish Static Mode setting. If you don't know about parameters of Static Mode setting, please ask your ISP for them.
- DHCP: In this mode, you will get the information from the DHCP server automatically; need not to input this information artificially.
- PPPoE: In this mode, you must input your ADSL account and password.

You can also refer to 2.2.1 Network setting to speed setting your network.

Choose Static IP MODE, click **【NEXT】** can configure the network and SIP(default SIP1)simply, also can browse too. Click **【BACK】** can return to the last page.

Static IP Settings	
IP Address	192.168.1.179
Subnet Mask	255.255.255.0
IP Gateway	192.168.1.1
DNS Domain	
Primary DNS	202.96.134.133
Secondary DNS	202.96.128.68
	Back Next
IP Address	Input the IP address distributed to you
Subnet Mask	Input the Netmask distributed to you.
IP Gateway	Input the Gateway address distributed to you.
	Set DNS domain postfix. When the domain which
DNS Domain	you input cannot be parsed, phone will
	automatically add this domain to the end of the
	domain which you input before and parse it again.
Primary DNS	Input your primary DNS server address.
Secondary DNS	Input your standby DNS server address.
Quick SIP Settings	
Display Name	
Server Address	
Server Port	5060
Authentication User	
Authentication Password	
SIP User	
Enable Registration	
	Back Next
Display Name	Set the display name.
Server Address	Input your SIP server address.
Server Port	Set your SIP server port.
Authentication	Input your SIP register account name.
User	
Authentication	Input your SIP register password.
Password	
SIP User	Input the phone number assigned by your VOIP
	service provider.
Enable	Start to register or not by selecting it or not.
Registration	

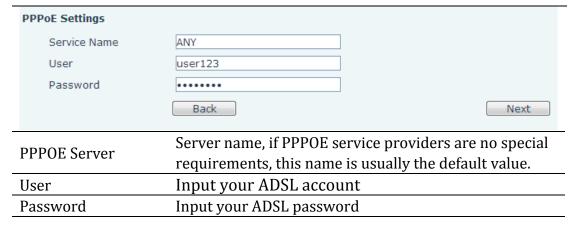
WAN		
Connection Mode	Static IP	
Static IP Address	192.168.1.179	
IP Gateway	192.168.1.1	
SIP		
Server Address		
Account		
Phone Number		
Registration	Disabled	
	Back	Finish

Display detailed information that you manual config.

Choose DHCP MODE, click 【Next】 can config SIP (default SIP1) simply, also can browse too. Click Back can return to the last page. Like Static IP MODE.

Choose PPPoE MODE, click 【Next】 can config the PPPoE account/password and SIP (default SIP1) simply, also can browse too.

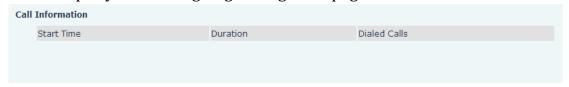
Click 【Back】 can return to the last page. Like Static IP MODE.



Notice: Click **[Finish]** button after finished your setting, IP Phone will save the setting automatically and reboot, After reboot, you can dial by the SIP account.

#### 8.3.1.3 CALL LOG

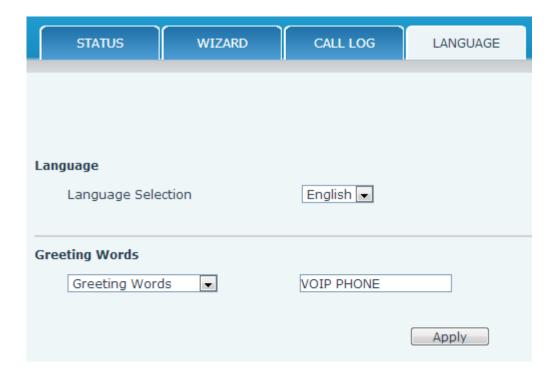
You can query all the outgoing through this page.



# Call log

Field name	explanation
Start Time	Display the start time of the outgoing record.
Duration	Display the conversation time of the outgoing record.
Dialed Calls	Display the account/protocol/line of the outgoing record.

#### **8.3.1.4 LANGUAGE**

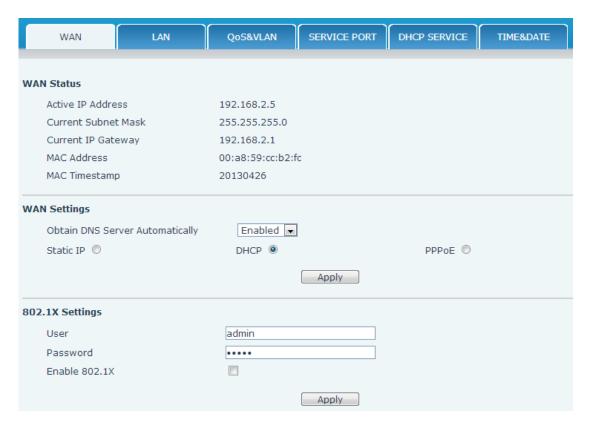


# **LANGUAGE**

Field name	Field name
Language	Set the language of phone, English is default.
	The greeting words will display on LCD when
<b>Greeting Words</b>	phone is idle. It can support 12 chars. the default
	chars are VOIP PHONE.
Notice: the maximal length of the greeting message is twelve English	
characters and five Chinese characters.	

### 8.3.2 NETWORK

#### 8.3.2.1 WAN



# **WAN Status**

WAN Status		
Active IP Address	192.168.2.5	
Current Subnet Mask	255.255.255.0	
Current IP Gateway	192.168.2.1	
MAC Address	00:a8:59:cc:b2:fc	
MAC Timestamp	20130426	
Active IP Address	The current IP address of the phone	
Curren Subenet	The assument Naturals address	
Mask	The current Netmask address	
MAC Address	The current MAC address of the phone	
Current IP Gateway	The current Gateway IP address	
MAC Timestamp	Shows the time of getting MAC address	
WAN Settings		
Obtain DNS Server Au	comatically Enabled 💌	
Static IP	DHCP ◉	PPPoE 🔘
	Apply	

Please select the proper network mode according to the network condition. F52 provide three different network settings:

- Static: If your ISP server provides you the static IP address, please select this mode, and then finish Static Mode setting. If you don't know about parameters of Static Mode setting, please ask your ISP for them.
- DHCP: In this mode, you will get the information from the DHCP server automatically; need not to input this information artificially.
- PPPoE: In this mode, you must input your ADSL account and password.

You can also refer to 2.2.1 Network setting to speed setting your network.

Obtain DNS server automatically	Select it to use DHCP mode to get DNS address, if	
	you don't select it, you will use static DNS server.	
automatically	The default is selecting it.	
WAN Settings		
Static IP	DHCP <sup>◎</sup> PPPoE <sup>◎</sup>	
IP Address	192.168.1.179	
Subnet Mask	255.255.255.0	
IP Gateway	192.168.1.1	
DNS Domain		
Primary DNS	202.96.134.133	
Secondary DNS	202.96.128.68	
	Apply	
If you user static mode	e, you need set it.	
IP Address	Input the IP address distributed to you.	
Subnet Mask	Input the Netmask distributed to you.	
IP Gateway	Input the Gateway address distributed to you.	
	Set DNS domain postfix. When the domain which	
DMC Dana'a	you input cannot be parsed, phone will	
DNS Domain	automatically add this domain to the end of the	
	domain which you input before and parse it again.	
Primary DNS	Input your primary DNS server address.	
Secondary DNS	Input your standby DNS server address.	
Static IP	DHCP   PPPoE   PPPOE	
Service Name	ANY	
User	user123	
Password	•••••	
	Analy	
	Apply	
If you uses PPPOE mo	de, you need to make the above setting.	
Service Name	It will be provided by ISP.	
User	Input your ADSL account.	
Password	Input your ADSL password.	

#### Note:

- 1) Click "Apply" button after finished your setting, IP Phone willsavethe setting automatically and new setting will take effect.
- 2) If you modify the IP address, the web wills not response by the old IP address. Your need input new IP address in the address column to logon in the phone.
- 3) If networks ID which is DHCP server distributed is same as network ID which is used by LAN of system, system will use the DHCP IP to set WAN, and modify LAN's networks ID (for example, system will change LAN IP from 192.168.10.1 to 192.168.11.1) when system uses DHCP client to get IP in startup; If system uses DHCP client to get IP in running status and network ID is also same as LAN's, system will refuse to accept the IP to configure WAN. So WAN's active IP will be 0.0.0.0.

#### 8.3.2.2 LAN



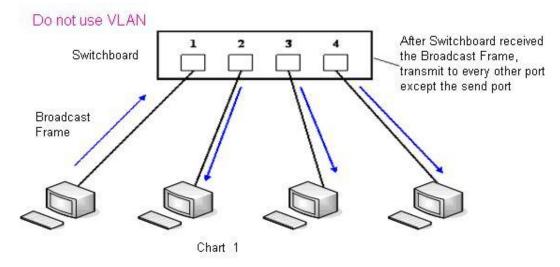
## **LAN Config**

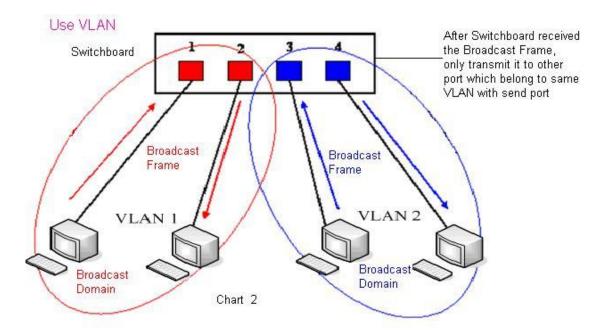
Field name	explanation
LAN IP Address	Specify LAN static IP
Subnet Mask	Specify LAN Netmask
	Select the DHCP server of LAN port or not. After
	you modify the LAN IP address, phone will amend
DHCP Service	and adjust the DHCP Lease Table and save the
	result amended automatically according to the IP
	address and Netmask. You need reboot the phone
	and the DHCP server setting will take effect.
NAT	Select NAT or not
Port Mirror	Select Port Mirror or not, it only works in bridge
	mode, the function of the port mirror is that copy

	the data stream from the WAN port to the LAN port
	of the phone.
	Select Bridge Mode or not: If you select Bridge
Enable Bridge	Mode, the phone will no longer set IP address for
Mode	LAN physical port,LAN and WAN will join in the
	same network. Click "Apply", the phone will reboot.
Notice: When LAN IP or bridge mode status is changed, the system will	
reboot!	-
If you choose the	e bridge mode, the LAN configuration will be disabled.

#### 8.3.2.3 QoS&VLAN

The VOIP phone support 802.1Q/P protocol and DiffServ configuration. VLAN functionality can use different VLAN IDs by setting voice VLAN and data VLAN. The VLAN application of this phone is very flexible.

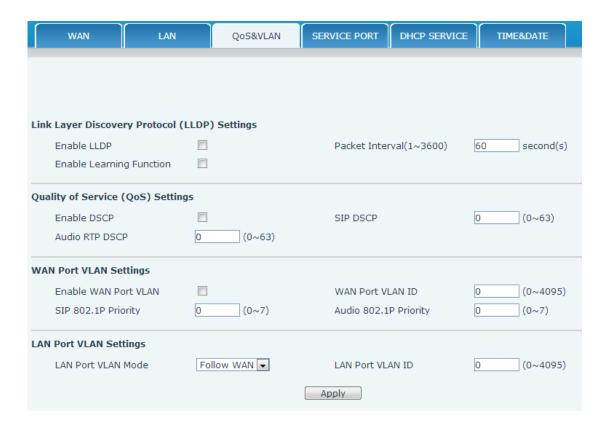




In chart 1, there is a layer 2 that switches without setting VLAN. Any broadcast frame will be transmitted to the other ports except the send port. For example, a broadcast information is sent out from port 1 then transmitted to port 2,3and 4.

In chart 2, red and blue indicate two different VLANs in the switch, and port 1 and port 2 belong to red VLAN, port 3 and port 4 belong to blue VLAN. If a broadcast frame is sent out from port 1, switch will transmit it to port 2, the other port in the red VLAN and not transmit it to port3 and port 4 in blue VLAN. By this means, VLAN divide the broadcast domain via restricting the range of broadcast frame transition.

Note: chart 2 use red and blue to identify the different VLAN, but in practice, VLAN uses different VLAN IDs to identify.



# **QoS & VLAN Configuration**

Field name	explanation
Link Layer	
Discovery Protocol	
(LLDP) Settings	
Enabel LLDP	Enable LLDP by selecting it.
	After enabling LLDP Learn, telephone can
	automatically learn the data of DSCP, 802.1p, VLAN
<b>Enable Learning</b>	ID from the switch. If the data is different from the
Funcion	data of the LLDP server, telephone will change its
	own value as the value of the switch (Synchronous
	with VLAN in switch).
Package	The time interval of sending LLDP Packet.
Interval(1-3600)	
Quality of	
Service(QOS)	
Settings	
Enable DSCP	Enable DSCP by selecting it.
SiP DSCP	Specify the value of the SIP DSCP.
Audio RTP DSCP	Specify the value of the Audio RTP DSCP.
WAN Port VLAN	
Settings	
Enable WAN Port	Enable WAN Port VLAN by selecting it.

VLAN	
WAN Port VLAN ID	Specify the value of the WAN Port VLAN ID, the range of the value is 0-4095.
SIP 802.1p Priority	Specify the value of the sip 8021.p priority, the range of the value is 0-7.
Audio 802.1p	Specify the value of the audio 802.1p priority, the
Priority	range of the value is 0-7.
LAN Port VLAN	
Settings	
LAN Port Vlan	Follow WAN: Follow the WAN ID.
	Disable: Disable Port VALN.
	Enable: Enable Port VLAN and specify the Port
	VLAN ID different from WAN ID.
I AN Dort VI AN ID	Specify the value of the Port VLAN ID different
LAN Port VLAN ID	from WAN ID, the range of the value is 0-4095.

#### 8.3.2.4 Service Port

You can set the port of telnet/HTTP/RTP by this page.



# **Service Port**

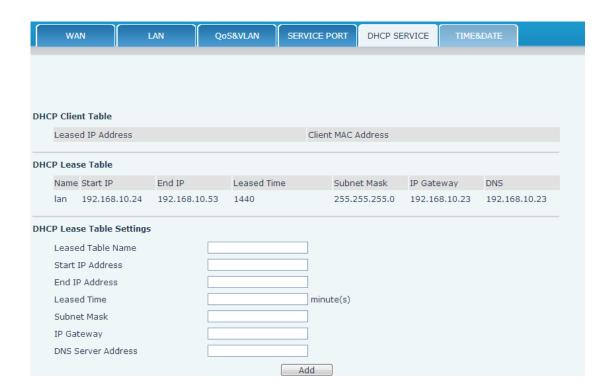
Field name	explanation
<b>Service Port Settings</b>	
Web Server Type	Specify Web Server Type.
	Set web browser port, the default is 80 port, if you
HTTP Port	want to enhance system safety, you'd better change
	it into non-80 standard port;
	Example: The IP address is 192.168.1.70. and the
	port value is 8090, the accessing address is

	http://192.168.1.70:8090.
	Before using the https, you must download https
	authentication certification into the phone, then
HTTPS Port	set web browser port, the default is 443 port, if you
IIIIFSFUIL	want to enhance system safety, you'd better change
	it into non-443 standard port. You can access to the
	web in https after rebooting the phone.
Telnet Port	Set Telnet Port, the default is 23.
RTP Port Range	Set the RTP Start Port. It is dynamic allocation.
Start	
RTP Port Quantity	Set the maximum quantity of RTP Port, the default
	is 200.

#### Notice:

- 1) You need save the configuration and reboot the phone after set this page.
- 2) Please REBOOT the system if you modify the HTTP or telnet port number (the new number should be greater than 1024).
- 3) If you set 0 for the HTTP port, it will disable HTTP service.

#### 8.3.2.5 DHCP SERVICE



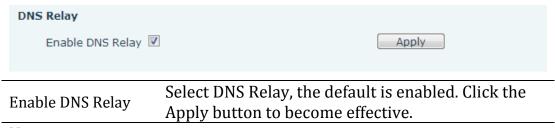
#### **DHCP SERVICE**

Field name	explanation
DHCP Lease Table	IP-MAC mapping table. If the LAN port of the
	phone connects to a device, this table will show

### the IP and MAC address of this device.

Shows the DHCP Le	ase Table, the unit of Lease time is Minute.		
Lease Table Name	Specify the name of the lease table.		
Start IP Address	Set the start IP address of the lease table.		
	Set the end IP address of the lease table, the		
<b>End IP Address</b>	network device connected to LAN port will get IP		
	address between Start IP and End IP by DHCP.		
Leased Time	Set the Lease Time of the lease table.		
Subnet Mask	Set the Netmask of the lease table.		
IP Gateway	Set the Gateway of the lease table.		
	Set the default DNS server IP of the lease table;		
DNS	Click the <b>Add</b> button to submit and add this lease		
	table.		
DHCP Lease Table Delete			
Leased Table Name	lan ▼ Delete		

Select name of lease table, click the **Delete** button will delete the selected lease table from DHCP lease table.



### Notice:

- 1) The size of lease table cannot be larger than the quantity of C network IP address. We recommend you to use the default lease table and not modify it.
- 2) If you modify the DHCP lease table, you need save the configuration and reboot.

#### 8.3.2.6 TIME&DATE

Setting time zone and SNTP (Simple Network Time Protocol) server according to your location, you can also manually adjust date and time in this web page.

WAN	LAN	QoS&VLAN	SERVICE PORT	DHCP SERVICE	TIME&DATE
Simple Network Tir		) Settings			
Enable SNTP	<b>▽</b>				
Enable DHCP T					
Primary Server	209.81	.9.7			
Secondary Serv	ver				
Timezone	(GMT+	08:00)Beijing,Chor	ngqing,Hong Kong,U	rumqi 🔻	
Resync Period	60	second(s)			
12-Hour Clock					
Date Format	1 Jan,N	1on 🔻			
			Apply		
Daylight Saving Tin	ne Settings				
Enable					
Offset	60	minutes(s)			
Month	March	_		October 🔻	
Week	5 💌			5 💌	
Day	Sunda	y		Sunday	
Hour	2			2	
Manual Time Settings	i				
Year					
Month					
Day					
Hour					
Minute					
			Apply		

# TIME&DATE

Field Name	Explanation
Simple Network	
Time Protocol	
(SNTP) Settings	
Enable SNTP	Enable SNTP by selecting it.
<b>Enable DHCP Time</b>	Enable DHCP Time by selecting it, then the
	phone will automatically synchronize the standard
	time.
Primary Server	Set SNTP Primary Server IP address.
Secondary Server	Set SNTP Secondary Server IP address.
Time Zone	Select the Time zone according to your location.
Resync Period	Set the time out, the default is 60 seconds.
12 -Hour Clock	Switch the time mechanism between 12 hours and
	24 hours.
	Default is 24 hours mode.

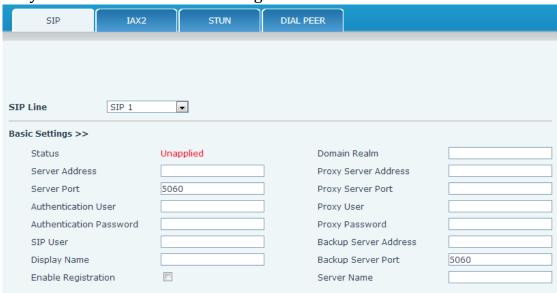
Date format	Specify the date format.
Daylight Saving	
Time Settings	
Enable	Enable daylight saving time.
Offset(minutes)	Setup the variety length.
Month	Setup start and end month.
Week	Setup start and end week.
Day	Setup start and end day.
Hour	Setup start and end hours.
Minute	Setup start and end minutes.
Manual Time	
Settings	
Manual Time Settings	
Year	
Month	
Day	
Hour	
Minute	
	Apply

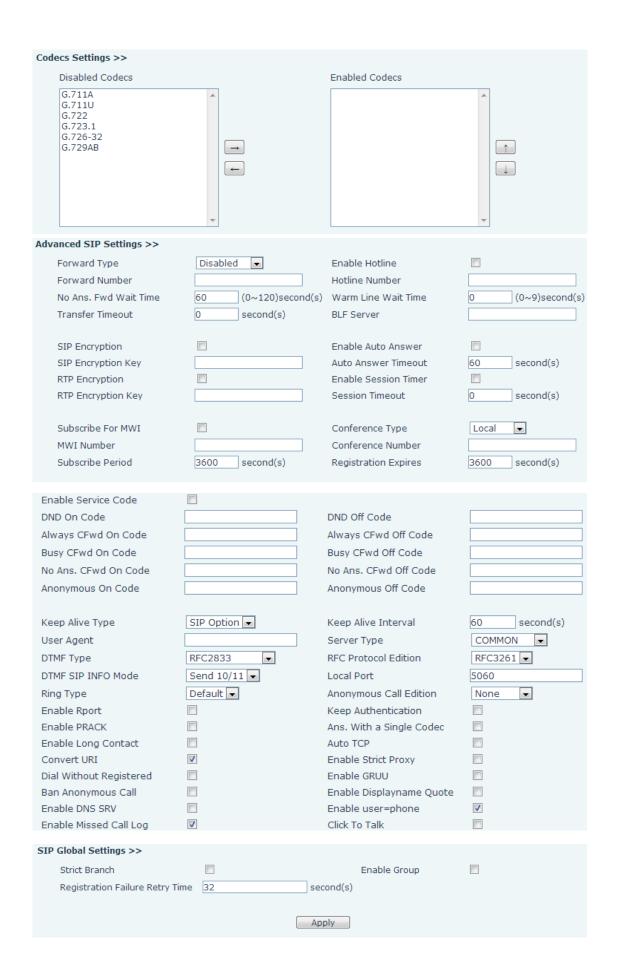
Notice: First of all, you need to disable the SNTP service, and above the date hours minutes each of which is required to complete and submit to make manual.

### 8.3.3 VOIP

### 8.3.3.1 SIP

Set your SIP server in the following interface.





# **SIP Config**

Field name	explanation		
SIP Line			
Choose line to set info	about SIP, there are 4 lines to choose. You can		
switch by 【Load】 bu	itton.		
Basic Settings			
Status	Shows if the phone has been registered the SIP		
	server or not; or so, show Unapplied.		
Server Address	Input your SIP server address.		
Server Port	Set your SIP server port.		
Authentication User	Input your SIP register account name.		
Authentication	Input your SIP register password.		
Password			
SIP User	Input the phone number assigned by your VoIP		
	service provider. Phone will not register if there		
	is no phone number configured.		
Display Name	Set the display name.		
	Set proxy server IP address (Usually, Register SIP		
	Server configuration is the same as Proxy SIP		
Proxy Server	Server. But if your VoIP service provider gives		
Address	different configurations between Register SIP		
	Server and Proxy SIP Server, you need make		
	different settings).		
Proxy Server Port	Set your Proxy SIP server port.		
Proxy User	Input your Proxy SIP server account.		
Proxy Password	Input your Proxy SIP server password.		
	Set the sip domain if needed, otherwise this VoIP		
Domain Realm	phone will use the Register server address as sip		
	domain automatically. (Usually it is same with		
	registered server and proxy server IP address).		
Backup Server	Input the Backup Server Address, if the primary		
Address	server is unavailable, then the phone will enable		
	the Backup Server Address.		
Backup Server Port	Specify the Backup Server Port.		
Enable Registration	Start to register or not by selecting it or not.		
Codecs Settings			
Disable	Use the navigation keys to highlight the desired		
Codecs/Enable	one in the Enable/Disable Codecs list, and press		
Codecs	the desired to move to the other list.		
Advanced SIP Setting			
	Select call forward mode, the default is Disabled.		
<del></del>			

Forward Type	Off: Close down calling forward. Busy: If the phone is busy, incoming calls will be forwarded to the appointed phone. No answer: If there is no answer, incoming calls will be forwarded to the appointed phone after a specific. Always: Incoming calls will be forwarded to the appoint phone immediately. The phone will prompt the incoming while doing forward.
Forward Number	Specify the number you want to forward.
No Answer Forward	Specify the No Answer Forward Delay Time, if the
Wait Time	Forward Type is No answer, incoming calls will
	be forwarded after the no answer forward wait
	time.
Enable Hot Line	Specify Hot Line by selecting it.
Hot Line Number	Specify Hot Line Number, the phone dial the hot
	line number automatically at hands-free mode or
	handset mode after warm line time.
Warm Line Wait	Specify the Warm Line Time.
Time	
Transfer Timeout	For the phone supports the transfer of certain special features server, set interval time between sending "bye" and hanging up after the phone transfers a call.
BLF Server	Ordinary BLF application is that the phone send subscription package to the registered server, if your server does not support subscription package, please input the BLF server so that it can separate register server and BLF server
SIP Encryption	Enable/Disable SIP Encryption.
SIP Encryption Key	Set the key for sip encryption.
RTP Encryption	Enable/Disable RTP encryption.
RTP Encryption Key	Set the key for RTP encryption.
Enable Auto Answer	Enable Auto Answer by selecting it.
Auto Answer	Specify Auto Answer Time, the phone auto
Timeout	answers the incoming call after Auto Answer Time.
Enable Session	Set Enable/Disable Session Timer, whether
Timer	support RFC4028.It will refresh the SIP sessions.
Session Timeout	Set the session timeout.
Subscribe for MWI	Enable the Subscribe for MWI by selecting it, the phone will send subscribe message for MWI to the SIP Server.

MWI Number	Specify the MWI Number; Please contact your system administrator for the connecting code. Different systems have different codes.
Subscribe Period(s)	Overtime of resending subscribe packet. Suggest using the default configuration.
Conference Type	Specify the Conference Type, if you select the local, you needn't input the conference number.
Conference Number	Specify the network conference number, please contact your system administrator for the network conference number.
Registration Expire(s)	Set expire time of SIP server register, default is 60 seconds. If the register time of the server requested is longer or shorter than the expired time set, the phone will change automatically the time into the time recommended by the server, and register again.
Enable Service Code	If you want to realize the following function by the server, please enter the On Code and Off Code option, then when you choose to enable/disable following function on your IP phone, it will send message to the server, and the server will turn on/off the function immediately.
DND On Code	Set the DND On Code, When you press the DND hot key, the phone will send a message to the server, and the server will turn on the DND function. Then any calls to the extension will be rejected by the server automatically. And the incoming call record will not be displayed in the Call History.
DND Off Code	Set the DND Off Code, When you press the DND hot key, the phone will send a message to the server, and the server will turn off the DND function.
Always CFwd On Code	Set the Always CFwd On Code, when you choose to enable the always forward function on your phone, it will send message to the server, and the server will turn on the function immediately. When there are calls to the extension, the server will always forward it to the set number automatically. And the IP phone will not show the record in the call history anymore.
Always CFwd Off Code	Set the Always CFwd Off Code, when you choose to disable the always forward function on your phone, it will send message to the server, and the

	server will turn off the function immediately.
Busy CFwd On Code	Set the Busy CFwd On Code, when you choose to
	enable the busy forward function v on your
	phone, it will send message to the server, and the
	server will turn on the function immediately.
	When there are calls to the extension, the server
	will forward it to the set number automatically
	based the forward type. And the IP phone will not
	show the record in the call history anymore.
Busy CFwd Off Code	Set the Busy CFwd Off Code, when you choose to
	disable the busy forward function on your phone,
	it will send message to the server, and the server
	will turn off the function immediately.
No Answer CFwd On	Set the No Answer CFwd On Code, when you
Code	choose to enable the on answer forward function
	on your phone, it will send message to the server,
	and the server will turn on the function
	immediately. When there are calls to the
	extension, the server will forward it to the set
	number automatically based the forward type.
	And the IP phone will not show the record in the
	call history anymore.
No Answer CFwd Off	Set the No Answer CFwd Off Code, when you
Code	choose to disable the busy forward function on
	your phone, it will send message to the server,
	and the server will turn off the function
	immediately.
Anonymous On Code	Set the Anonymous On Code, When you choose to
•	enable the anonymous call function on your IP
	phone, it will send information to the server, and
	the server will enable the anonymous call
	function for your IP phone automatically.
Anonymous Off Code	Set the Anonymous Off Code, When you choose to
J	disable the anonymous call function on your IP
	phone, it will send information to the server, and
	the server will disable the anonymous call
	function for your IP phone automatically.
Keep Alive Type	Specify the keep alive type, if the type is option,
1 31	the
	phone will send option sip message to server
	every NAT Keep Alive Period(s), then the server
	responses with 200 to keep alive. If the type is
	UDP, the phone will send UDP message to server
	to keep alive every NAT Keep Alive Period(s).

Keep Alive Interval	Set examining interval of the server, default is 60 seconds.		
User Agent	Set the user agent if have, the default is VoIP Phone 1.0.		
DTMF Type	Select DTMF sending mode, there are three modes:  • DTMF_RELAY  • DTMF_RFC2833  • DTMF_SIP_INFO  Different VoIP Service providers may provide different modes.		
DTMF SIP INFO	There are two options: send 10/11 and send */		
Mode	#		
Local Port	Set sip port of each line.		
Ring Type	Set ring type of each line.		
Enable Via Rport	Enable/Disable system to support RFC3581. Via rport is special way to realize SIP NAT.		
Enable PRACK	Enable or disable SIP PRACK function, suggest use the default config.		
Enable Long Contact	Set more parameters in contact field; connection with SEM server.		
Convert URI	Convert # to %23 when send the URI.		
Dial Without Registered	Set call out by proxy without registration;		
Ban Anonymous Call	Set to ban Anonymous Call;		
Enable DNS SRV	Support DNS looking up with _sip.udp mode.		
Server Type	Select the special type of server which is		
	encrypted, or has some unique requirements or call flows.		
RFC Protocol Edition	Select SIP protocol version to adapt for the SIP server which uses the same version as you select. For example, if the server is CISCO5300, you need to change to RFC2543; else phone may not cancel call normally. System uses RFC3261 as default.		
Transport Protocol	Set transport protocols, TCP or UDP;		
Anonymous call Edition	Set Anonymous call out safely; Support RFC3323and RFC3325;		
Keep Authentication	Enable/Disable Keep Authentication System will take the last authentication field which is passed the authentication by server to the request packet. It will decrease the server's repeat authorization work, if it is enable.		
Answer With A	Enable/Disable the function when call is		
Single Codec	incoming, phone replies SIP message with just		

	one codec which phone supports.	
Auto TCP	Set to use automatically TCP protocol to	
	guarantee usability of transport as message is	
	above 1300 byte	
Enable Strict Proxy	Support the special SIP server-when phone	
	receives the packets sent from server, phone will	
	use the source IP address, not the address in via	
	field.	
Enable GRUU	Set to support GRUU	
Enable Display name	Set to make quotation mark to display name as	
Quote	the phone sends out signal, in order to be	
	compatible with server.	
Enable user=phone	Enable user=phone by selecting it, it is contained	
	in the invite sip message, in order to be	
	compatible with server.	
<b>Enable Missed Call</b>	Enable the missed call log by it, the phone will	
Log	save the missed call log into the call history	
	record and display the missed calls on the idle	
	screen, or won't save the missed call log into the	
	call history record and display the missed calls	
	on the idle screen.	
Click to talk	Set click to Talk (need practical software	
	support).	
Enable BLF List	Enable BLF List by selecting it, BLF list is a	
	function which can monitor the group status, it is	
	not one to one monitoring, but the information	
	feedback from the server to decide which BLF list	
II IIDNI	will monitor.	
Use VPN	Phone use vpn ip to communicate	
BLF List Number	Specify the BLF List Number.	
SIP Global Settings		
Strict Branch	Enable the Strict Branch, the value of the branch	
	must be in the beginning of z9hG4k in via field of	
	the invite sip message received, or the phone	
	won't response to the invite sip message.	
	Notice: the deployment will become effective in	
F 11 C	all sip lines.	
Enable Group	Enable Group by selecting it, then the phone	
	enable the sip group backup function.	
	Notice: the deployment will become effective in	
Dogistration Eailura	all sip lines.	
Registration Failure	Specify the registration failure retry time, if the	
Retry Time	phone register failed, the phone will register	
	again after registration failure retry time.	

### 8.3.3.2 IAX2

SIP	IAX2	STUN	DIAL PEER
IAX2			
Status		Unapplied	
Server Address	1		
Server Port		4569	
Account			
Password			
Phone Number			
Local Port		4569	
Voice Mail Numl	ber	0	
Voice Mail Text		mail	
Echo Test Numl	ber	1	
Echo Test Text		echo	
Refresh Time		60 second	d(s)
Enable Registra	ation		
Enable G.729Al	3		
			Apply

# IAX2 Config

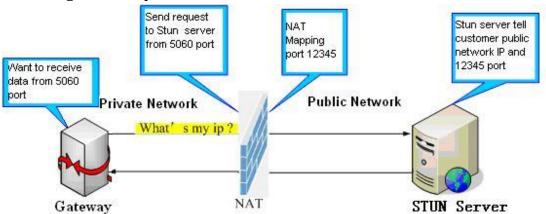
Field name	explanation	
Status	Shows if the phone has been registered the IAX2	
	server or not.	
Server Address	Input your IAX2 server address.	
Server Port	Set your IAX2 server port, the default is 4569.	
Account	Input your IAX2 register account name.	
Password	Input your IAX2 register password.	
Phone Number	Input your assigned phone number (usually it is	
	same you're your IAX2 account name).	
Local Port	Set your local sport, the default is 4569.	
Voice Mail	Specify the voice mail's number.	
Number		

Voice Mail Text	Specify the voice mail's name.			
	Set echo test number. If IAX2 server supports echo			
Echo Test	test, and echo test number is non- numeric, system			
Number	could set an echo test number to replace the echo			
	test text. So user can dial the numeric number to test			
	echo voice test. This function is provided with server			
	to make endpoint to test whether endpoint could			
	talk through server normally.			
Echo Test Text	Specify echo test text's name.			
Refresh Time	Set expire time of IAX2 server register, you can set it			
	between 60 and 3600 seconds.			
Enable	Start to register the IAX2 server or not by selecting it			
Registration	or not.			
Enable G.729AB	Enable or disable code G.729 by selecting it or not.			

#### 8.3.3.3 Stun

In this web page, you can config SIP STUN.

STUN: By STUN server, the phone in private network could know the type of NAT and the NAT mapping IP and port of SIP. The phone might register itself to SIP server with global IP and port to realize the device both calling and being called in private network.



SIP IAX2	STUN DIAL PEER
Simple Traversal of UDP through NAT	s (STUN) Settings
STUN NAT Traversal	FALSE
Server Address	
Server Port	3478
Binding Period	50 second(s)
SIP Waiting Time	800 millisecond(s)
Local SIP Port	5060
	Apply
SIP Line Using STUN	
SIP 1 ▼	
Use STUN	
	Apply

# **STUN**

Field name	explanation
Simple Traversal of	
UDP through NATs	
(STUN) Settings	
STUN NAT Traversal	Shows STUN NAT Transverse estimation, true
	means STUN can penetrate NAT, while False
	means not.
Server Address	Set your SIP STUN Server IP address.
Server Port	Set your SIP STUN Server Port.
Blinding Period(s)	Set STUN blinding period(s). If NAT server finds
	that a NAT mapping is idle after time out, it will
	release the mapping and the system need send a
	STUN packet to keep the mapping effective and
	alive.
SIP Waiting Time	Specify the sip wait stun time; you can input the
	time depended on your network condition.
Local SIP Port	Configuration the local SIP Port, the default
	value is 5060 (this port immediate effect, modify,
	SIP call will use the modified port
	communication )
Sip Line Using STUN	

SIP Line Using STUN	
SIP 1 ▼	
Use STUN	Apply

Choose line to set info about SIP, There are 2 lines to choose.

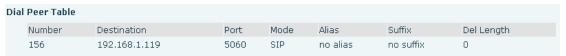
**Use STUN** 

Enable/Disable SIP STUN.

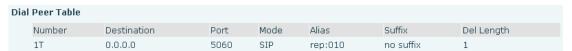
**Notice:** SIP STUN is used to realize SIP penetration to NAT. If your phone configures STUN Server IP and Port (default is 3478), and enable SIP Stun, you can use the ordinary SIP Server to realize penetration to NAT.

#### 8.3.3.4 **DIAL PEER**

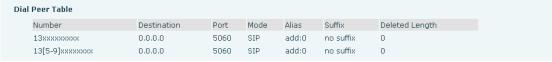
This functionality offers you more flexible dial rule, you can refer to the following content to know how to use this dial rule. When you want to dial an IP address, the entry of IP addresses is very cumbersome, but by this functionality, you can set number 156 to replace 192.168.1.119 here.



When you want to dial a long distance call to Beijing, you need dial an area code 010 before local phone number, but you can also dial number 1 instead of 010 after we make a setting according to this dial rule. For example, you want to dial 01062213123, but you need dial only 162213123 to realize your long distance call after you make this setting.



To save the memory and avoid abundant input of user, add the follow functions:



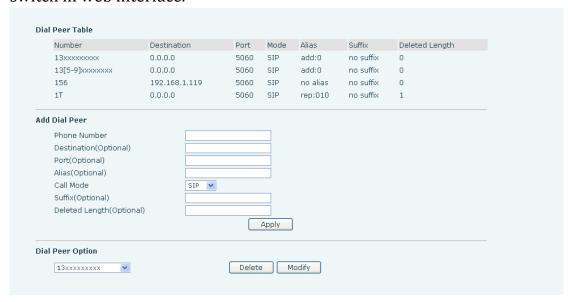
1. Increase in x matches any single digit, for example:

If user makes the above configuration, after user dials 11 digit numbers started with 13, the phone will send out 0 plus the dialed numbers automatically.

2. [] Specifies a range that will match digit. It may be a range, a list of ranges separated by commas, or a list of digits.

If user makes the above configuration, after user dials 11 digit numbers started with from 135 to 139, the phone will send out 0 plus the dialed numbers automatically.

Use this phone you can realize dialing out via different lines without switch in web interface.



## **DIAL PEER**

Field name	explanation				
Phone number	There are two types of matching conditions: one is				
	full matching, the other is prefix matching. In the				
	Full matching, you need input your desired phone				
	number in this blank, and then you need dial the				
	phone number to realize calling to what the phone				
	number is mapped. In the prefix matching, you				
	need input your desired prefix number and T; then				
	dial the prefix and a phone number to realize				
	calling to what your prefix number is mapped. The				
	prefix number supports at most 30 digits.				
Destination	Set Destination address. This is optional config				
	item. If you want to set peer to peer call, please				
	input destination IP address or domain name. If				
	you want to use this dial rule on SIP2 line, you need				
	input 255.255.255.255 or 0.0.0.2 in it.SIP3 into				
	0.0.0.3				
Port	Set the Signal port, the default is 5060 for SIP.				
Alias	Set alias. This is optional config item. If you don't				
	set Alias, it will show no alias.				

Note: There are four types of aliases.

- 1) Add: xxx, it means that you need dial xxx in front of phone number, which will reduce dialing number length.
- 2) All: xxx, it means that xxx will replace some phone number.
- 3) Del: It means that phone will delete the number with length appointed.

4) Rep: It means that phone will replace the number with length and number appointed.

You can refer to the following examples of different alias application to know more how to use different aliases and this dial rule.

Call Mode	Select different signal protocol, SIP or IAX2				
Suffix	Set suffix, this is optional config item. It will show				
	no suffix if you don't set it.				
Delete Length	Set delete length. This is optional config item. For				
	example: if the delete length is 3, the phone will				
	delete the first 3 digits then send out the rest digits.				
	You can refer to examples of different alias				
	application to know how to set delete length.				

The following describes how to configure the number IP table to achieve the configuration of multiple accounts simultaneously:

						_
8T	0.0.0.2	5060	SIP	del	no suffix	1
9T	0.0.0.0	5060	SIP	del	no suffix	1

9T means when you configure the SIP1 server and register, then the user through all SIP1 call to dial a 9 before the number;

8T means when you configure the SIP2 server and register, then the user through all the numbers before calling SIP2 dial 8;

2T	0.0.0.0	4569	IAX2	del	no suffix	1	
----	---------	------	------	-----	-----------	---	--

2T means when you configure the IAX2 server and register, then the user through all the IAX2 protocol number before the call can dial 2.

Note: For compatibility with 1.6 functions in the 1.7 version of the configuration file, add "Dialpeer With Line:" This field indicates whether to enable the on-line inquiry function, 0 is not enabled, 1 means enabled. The default is 0.

Differences are as follows:

1. Not enabled on-line inquiry

The function and the 1.6 version of the function is the same.

Type: This rule indicates what protocol needs to go.

Destination: indicates the destination address.

0.0.0.1 represents go sip1 line

0.0.0.2 represents go sip2 line

0.0.0.x represents go sipx line

(For compatibility with old code 0.0.0.0 means go sip1 line, 255.255.255.255 indicates go sip2 line)

Configuration examples are as follows:

2T	255.255.255.255	5060	SIP	del	no suffix	1
ЗТ	0.0.0.0	4569	IAX2	del	no suffix	1

If the phone dial 21111, the fact is through SIP2 and called number is 1111. If the phone dial 32222, the fact is through IAX2 and called number is 2222.

2. Enable on-line query capabilities

Enable on-line query function on the premise that: The phone must be multi-line products, you can choose when dialing protocol and line. So that each end of the dial, and also selected protocol and line.

Dialpeer table in the query, the first comparison dialing protocol is selected in the table and dialpeer agreement, if the same, continue down the match, otherwise, check the next one.

Step match line information, comparing the selected dial-up line is a line in the table and dialpeer is the same, if the same, continue down the match, otherwise the next query.

The third step is for a prefix or exact match.

Mode: to sip, it means that this rule is only used for sip protocol calls; iax2, it means that this rule is only used iax2 protocol calls.

Destination: indicates the destination address.

- 0.0.0.1 Indicates that the rule only calls for sip1 online
- 0.0.0.2 Indicates that the rule only calls for sip2 online
- 0.0.0.x Indicates that the rule only calls for sipX online
- 0.0.0.0 Indicates that the rules used in all online calls

Configuration Application examples

3T	0.0.0.0	4569	IAX2	del	no suffix	1
2T	0.0.0.0	5060	SIP	del	no suffix	1

The handset off-hook exhale (if SIP1 registration is successful, the default is SIP1) If the dial 21111, then exhaled directly through SIP1 and the called number is 21111

If the phone off-hook exhale (if SIP1 registration is successful, the default is SIP1) If dialing 32222, directly and through SIP1 outgoing called number is 32222

To make the configuration take effect dialpeer function,

Only when the handset off-hook exhaled choose SIP2, and dials 21111, the corresponding rule is matched by SIP2 exhaled and the called number is 1111 Only when the handset off-hook exhaled Select IAX2, and dials 32222, the corresponding rule is matched by IAX2 outgoing and called number is 2222

Examples of different alias application

Set by web		explanation	example
Phone Number Destination (optional) Port(optional) Alias(optional) Call Mode Suffix(optional) Delete Length (optional)	9T 255.255.255.255 del SIP •	You need set phone number, Destination, Alias and Delete Length. Phone number is XXXT; Destination is 255.255.255.255 (0.0.0.2) and Alias is del. This means any phone No. that starts with your set phone number will	If you dial "93333", the SIP2 server will receive "3333".

		be sent via SIP2 line after the first several digits of your dialed phone number are deleted according to delete length.	
Phone Number Destination (optional) Port(optional) Alias(optional) Call Mode Suffix(optional) Delete Length (optional)	2 all:33334444 SIP ▼	This setting will realize speed dial function, after you dialing the numeric key "2", the number after all will be sent out.	When you dial "2", the SIP1 server will receive 33334444.
Phone Number Destination (optional) Port(optional) Alias(optional) Call Mode Suffix(optional) Delete Length (optional)	8T add:0755 SIP •	The phone will automatically send out alias number adding your dialed number, if your dialed number starts with your set phone number.	When you dial "8309", the SIP1 server will receive "07558309".
Phone Number Destination (optional) Port(optional) Alias(optional) Call Mode Suffix(optional) Delete Length (optional)	010T  rep:0086  SIP ▼  3	You need set Phone Number, Alias and Delete Length. Phone number is XXXT and Alias is rep: xxx If your dialed phone number starts with your set phone number, the first digits same as your set phone number will be replaced by the alias number specified and New phone number will be send out.	When you dial "0106228", the SIP1 server will receive "86106228".
Phone Number Destination (optional) Port(optional) Alias(optional) Call Mode Suffix(optional) Delete Length (optional)	147	If your dialed phone number starts with your set phone number. The phone will send out your dialed phone number adding suffix number.	When you dial "147", the SIP1 server will receive "1470011".

# **8.3.4 PHONE**

### 8.3.4.1 AUDIO

In this page, you can configure voice codec, input/output volume and so on.

AUDIO FEATUR	E DIAL PLAN (	CONTACT REMOTE CONTA	OCT WEB DIAL MCAST
Audio Settings			
First Codec	G.711A ▼	Second Codec	G.711U ▼
Third Codec	G.729AB ▼	Fourth Codec	None 🔻
Fifth Codec	None	Sixth Codec	None 🔻
Onhook Time	200 millisecond(s)	Tone Standard	China
Handset Volume	5 (1~9)	Default Ring Type	Type 1 ▼
Speakerphone Volume	5 (1~9)	Headset Ring Volume	5 (1~9)
Headset Volume	5 (1~9)	Speakerphone Ring Volume	5 (1~9)
G.729AB Payload Length	20ms 🔻	G.723.1 Bit Rate	6.3kb/s 🕶
G.722 Timestamps	160/20ms 🔻	DTMF Payload Type	101 (96~127)
Enable VAD		Enable MWI Tone	V
	A	pply	

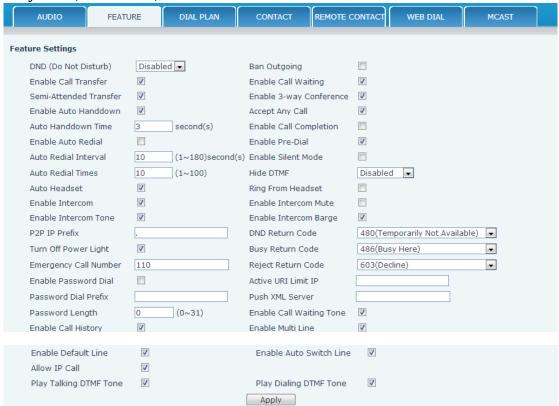
# **AUDIO Configuration**

Field name	explanation
First Codec	The first preferential DSP codec: G.711A/u, G.722,
	G.723.1,726-32 G.729AB,None.
Second Codec	The second preferential DSP codec: G.711A/u,
	G.722, G.723.1,726-32 G.729AB,None.
Third Codec	The third preferential DSP codec: G.711A/u, G.722,
	G.723.1,726-32 G.729AB,None.
Fourth Codec	The forth preferential DSP codec: G.711A/u, G.722,
	G.723.1,726-32 G.729AB,None.
Fifth Codec	The fifth preferential DSP codec: G.711A/u, G.722,
	G.723.1,726-32 G.729AB,None.
Sixth codec	The sixth preferential DSP codec: G.711A/u, G.722,
	G.723.1,726-32 G.729AB,None.
Onhook Time	Specify the least reflection time of Hand down, the
	default is 200ms.
Default Ring Type	Set up the ring by default.
Handset Output	Specify Output (receiver) Volume grade.
Volume	
Speakerphone	Specify Speakerphone Volume grade.

volume	
G729AB Payload	Set G729 Payload Length.
Length	
Tone Standard	Select Tone Standard.
G722 Timestamps	160/20ms or 320/20ms is available.
G723.1 Bit Rate	5.3 kb/s or 6.3 kb/s is available.
Enable VAD	Select it or not to enable or disable VAD. If enable
	VAD, G729 Payload length could not be set over
	20ms.
DTMF Payload	Set DTMF Payload Type.
Type	Set DTMF rayloau Type.

#### 8.3.4.2 FEATURE

In this web page, you can configure Hotline, Call Transfer, Call Waiting, 3 Ways Call, Black List, white list Limit List and so on.



Action URL Settings		
Setup Completed		
Registration Success		
Registration Disabled		
Registration Failed		
Off Hook		
On Hook		
Incoming Call		
Outgoing Call		
Call Established		
Call Terminated		
DND Enabled		
DND Disabled		
Always Forward Enabled		
Always Forward Disabled		
Busy Forward Enabled		
Busy Forward Disabled		
No Ans. Forward Enabled		
No Ans. Forward Disabled		
Transfer Call		
Blind Transfer Call		
Attended Transfer Call		
Hold		
Resume		
Mute		
Unmute		
Missed Call		
IP Changed		
Idle To Busy		
Busy To Idle		
	Apply	
Block Out Settings		
	Block Out	
	Add Delete	
	- Didete	

# **FEATURE**

Field name	explanation
Do Not	Select DND, the phone will reject any incoming call, the
Disturb	callers will be reminded by busy, but any outgoing call from
	the phone will work well.
Ban	If you select Ban Outgoing to enable it, and you cannot dial
Outgoing	out any number.
Enable Call	Enable Call Transfer by selecting it.
Transfer	
Semi-Attend	Enable Semi-Attended Transfer by selecting it.
ed Transfer	

Enable Auto	Enable Auto Redial by selecting it, then the phone reminds
Redial	whether redial, when the caller is busy or rejects.
Auto Redial	Specify the Auto Redial interval.
interval	Charify the Auto Dadial interval
Auto Redial	Specify the Auto Redial interval.
Times	
Enable Call	Enable Call Completion by selecting it.
Completion	
Enable	Disable this feature, in standby interface next number, will
Pre-Dial	realize the number rules "send out over the time"; Enable
	the feature ,then the number will not be send out over the
- II 6 II	time.
Enable Call	Enable Call Waiting by selecting it. Then the phone reminds
Waiting	whether redial, when the caller is busy or rejects. if it's ok
	and the phone finds out that the caller is idle by sip
	message, it will reminds whether redial.
Enable	Enable 3-way conference by selecting it.
3-way	
Conference	
Enable Call	Disdale this function ,you will not hear the tone "beep"
Waiting	when there have multiple incoming calls
Tone	
Accept Any	If select it, the phone will accept the call even if the called
Call	number is not belong to the phone.
<b>Enable Auto</b>	The phone will hang up and return to the idle automatically
Hand down	at hands-free mode.
Auto Hand	Specify Auto Hand down Time, the phone will hang up and
down Time	return to the idle automatically after Auto Hand down Time
	at hands-free mode, and play dial tone Auto Hand down
	Time at handset mode.
Ring From	Enable Ring From Handset by selecting it, the phone plays
Headset	ring tone from handset.
Enable	Enable Intercom Mode by selecting it.
Intercom	
Enable	Enable mute mode during the intercom call.
Intercom	_
Mute	
Enable	If the incoming call is intercom call, the phone plays the
Intercom	intercom tone.
Tone	
Enable	Enable Intercom Barge by selecting it, the phone auto
Intercom	answers the intercom call during a call. If the current call is
Barge	intercom call, the phone will reject the second intercom call.
Enable	Enable Silent Mode by selecting it, the phone light will red

Silent Mode	blink to remind that there is a missed call instead of playing
	ring tone.
Turn Off	Enable Turn Off Power Light by selecting it.
Power Light	
Emergency	Specify the Emergency Call Number. Despite the keyboard is
Call Number	locked, you can dial the emergency call number.
Enable	Enable Password Dial by selecting it, When number entered
Password	is beginning with the password prefix, the following N
Dial	numbers
	After the password prefix will be hidden as *, N stand for
	the value which you enter in the Password Length field. For
	example: you set the password prefix is 3, enter the
	Password Length is 2, then you enter the number 34567, it
	will display 3**67 on the phone.
Password	Specify the Password length.
Length	
DND Return	Specify DND Return code.
Code	
Busy Return	Specify Busy Return Code.
Code	
Reject	Specify Reject Return Code.
Return Code	
Hide DTMF	Specify the hide DTMF mode.
Push XML	Specify the Push XML Server, when phone receives request,
Server	it
	will determine whether to display corresponding content
	on the phone which sent by the specified server or not.
	Set Prefix in peer to peer IP call. For example: what you
P2P IP	want to dial is 192.168.1.119, If you define P2P IP Prefix as
Prefix	192.168.1., you dial only #119 to reach 192.168.1.119.
	Default is ".". If there is no "." Set, it means to disable dialing
	IP.

Setup Completed			
Registration Success			
Registration Disabled			
Registration Failed			
Off Hook			
On Hook			
Incoming Call			
Outgoing Call			
Call Established			
Call Terminated			
DND Enabled			
DND Disabled			
Always Forward Enabled			
Always Forward Disabled			
Busy Forward Enabled			
Busy Forward Disabled			
No Ans. Forward Enabled			
No Ans. Forward Disabled			
Transfer Call			
Blind Transfer Call			
Attended Transfer Call			
Hold			
Resume			
Mute			
Unmute			
Missed Call			
IP Changed			
Idle To Busy			
Busy To Idle			
	Apply		

Block Out Settings			
		Block Out	
	Add	~	Delete

Active URI	Specify the server IP that remote control phone for
Limit IP	corresponding operation.
Action URL	
Settings	
Action URL	Specify the Action URL that Record the operation of phone;
Settings	send this corresponding information to server, url:
	http://InternalServer/FileName.xml? (Internal Server is
	server IP. Filename is name of xml that contains the action
	message).
D1 1 0 .	

### Block Out Settings

Set Add/Delete Limit List. Please input the prefix of those phone numbers which you forbid the phone to dial out. For example, if you want to forbid those phones of 001 as prefix to be dialed out, you need input 001 in the blank of limit list, and then you cannot dial out any phone number whose prefix is 001.

X and are wildcard x means matching any single digit. For example, 4xxx expresses any number with prefix 4 which

Block out

length is 4 will be forbidden to dialed out means matching any arbitrary number digit. For example, 6 expresses any number with prefix 6 will be forbidden to dialed out.

Notice: Black List and Limit List can record at most10 items respectively.

#### 8.3.4.3 DIAL PLAN

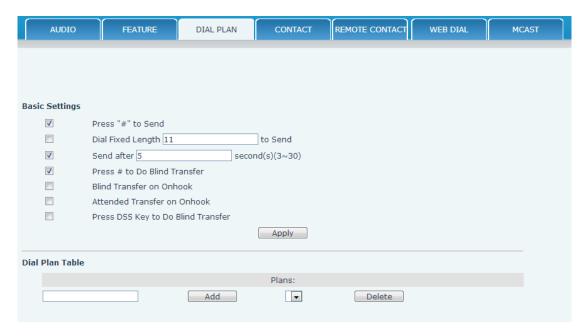
This system supports those dial modes as followings:

- 1) End with "#": dial your desired number, and then press #.
- 2) Fixed Length: the phone will intersect the number according to your specified length.
- 3) Time Out: After you stop dialing and waiting time out, system will send the number collected.
- 4) Press # to Do Blind Transfer: input the number you want to transfer to then press"#" you can transfer the current call to the number.
- 5) Blind Transfer on OnHook: input the number you want to transfer to then hang up handle or press speaker, you can transfer the current call to the number.
- 6) Attend Transfer on OnHook: hang up handle or press speaker you can realize the blind transfer function
- 7)Press the DSS key Blind: Press dss key, the current call will turn out blind.
- 7) User defined: you can customize digital map rules to make dialing more flexible. It is realized by defining the prefix of phone number and number length of dialing.

In order to maintain the end-user pbx secondary dial for dialing call mode. When requested to enter a phone number prefix, the sytem according to the rules in the closing number configuration rules, re-issue the dial tone, the user continues to enter the number, after the end of the closing number, the phone number will be prefixed and analog secondary dial tone is sent to the back of the numbers together server.

#### For example:

In the list of rules in the configuration of the closing number 9, xxxxxxxx then when the user dials 9, the system to re-play the dial tone, dial the number the user to continue; dial-up is complete, the phone is actually sent containing 9 9 numbers.



## **DIAL PLAN Configuration**

Field name	explanation
Basic Setting	
Press "#" to Send	Set Enable/Disable the phone ended with "#" dial.
Dial Fixed Length	Specify the Fixed Length of phone ending with.
Press # to Do Blind	Enable Blind Transfer On Hook, when executing
Transfer	Blind Transfer End with #, press # after inputting
	the number that you want to transfer, the phone
	will transfer the current call to the third party.
Blind Transfer on	Enable Blind Transfer on On Hook, when executing
OnHook	Blind Transfer, hang up after inputting the number
	that you want to transfer, the phone will transfer
	the current call to the third party.
Attend Transfer on	Enable Attend Transfer on On Hook, when
OnHook	executing Attended Transfer, hang up after the third
	party answers, the phone will transfer the current
	call to the third party.
Dial Plan Table	
	Plans:

Below is user-defined digital map rule:

[] Specifies a range that will match digit. May be a range, a list of ranges separated by commas, or a list of digits.

Delete

- \* Match any single digit that is dialed.
- . Match any arbitrary number of digits including none.

Add

Tn Indicates an additional time out period before digits are sent of n seconds in length. n is mandatory and can have a value of 0 to 9 seconds.

Tn must be the last 2 characters of a dial plan. If Tn is not specified it is assumed to be T0 by default on all dial plans.

```
Plans:

"[1-8]xxx"

"9xxxxxx"

"911"

"9914"

"9911x.T4"
```

Cause extensions 1000-8999 to be dialed immediately.

Cause 8 digit numbers started with 9 to be dialed immediately.

Cause 911 to be dialed immediately after it is entered.

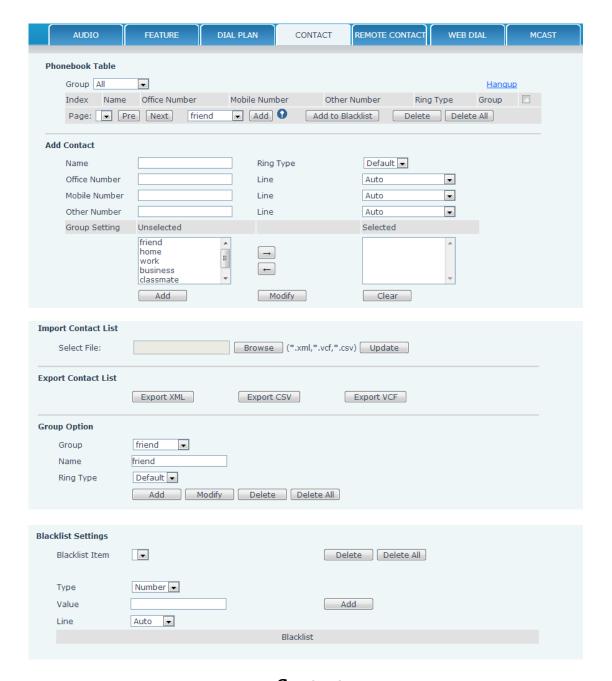
Cause 99 to be dialed after 4 seconds.

Cause any number started with 9911 to be dialed 4 seconds after dialing ceases.

**Notice:** End with "#", Fixed Length, Time out and Digital Map Table can be used simultaneously, System will stop dialing and send number according to your set rules.

#### 8.3.4.4 CONTACT

You can input the name, phone number and select ring type for each name here.



### **Contact**

Field name	explanation	
Phonebook Table		
Name	Shows the name corresponding to the phone	
	number.	
Shows the detail of cu	ırrent phonebook.	
Notice: the maximum	capability of the phonebook is 500 items, you can	
select many or a cont	act to add to group and add to blacklist, and delete	
many or a contact, and delete all contacts.		
Add Contact List		
Name	Specify the name corresponding to the phone	
	number.	

Office Number	Specify the office number.
Mobile Number	Specify the mobile number.
Other Number	Specify the other number.
Ring Type	Specify the ring type for the phone number.
Line	Specify the sip line for the each number.
Group setting	Select the group from the unselected group to selected list for the contact; you can select many groups for the contact.

Notice: the add button for adding a new contact, the modify button for modifying the added contact, the clear all button for clear all input information of the contact.

Group Option	
Group	Select the added groups then modify or delete
	and so on.
Name	Input the name of the group, then click the add
	button, you can add a new group.
Ring Type	Specify the ring type for the group as adding a
	new group.
Blacklist Settings	
Type	Select the blacklist type, you can select number
	or prefix of number.
Value	Input number or prefix of number.
Line	Select the sip line.

Notice: the add button for adding a new blacklist, the delete button for deleting one item, the delete all button for deleting all items. If user does not want to answer some phone calls, add these phone numbers to the Black List, and these calls will be rejected x and are wildcard x means matching any single digit. For example, 4xxx expresses any number with prefix 4 which length is 4 will be forbidden to be responded.

DOT (.) means matching any arbitrary number digit. For example, 6. expresses any number with prefix 6 will be forbidden to be responded. If user wants to allow a number or a series of number incoming, he may add the number(s) to the list as the white list rule. The configuration rule is -number, for example, -123456, or -1234xx.

	1 '	
	Black List	
	-4119	

Means any incoming number is forbidden except for 4119 Note: End with DOT (.) when set up the white list.

#### **8.3.4.5 REMOTE CONTACT**

AUDI	O FEATURE	DIAL PLAN	CONTACT	REMOTE CONTACT	WEB DIAL	MCAST
Pamota Dho	nebook Settings					
Index	Phonebook Name	Server URL	SIP Line	User	Password	
1	Prioriedook Name	Server OKL	Auto 🔻	User	Password	
2			Auto 🕶			
3			Auto 🕶			
4			Auto 🔻			
4			Auto 💌			
			Apply			
			Арріу			
LDAP Set	tinas					
LDAP	LDAP 1					
Displ	ay Title			Version	Version 3 ▼	
Serv	er Address			Server Port	389	
Auth	entication	None ▼		Line	AUTO 🔻	
User	name			Password		
Sear	ch Base			Enable Calling Search		
Telep	phone	telephoneNumber		Mobile	mobile	
Othe	er	home		Display Name	cn	
			Apply			

You need to match a XML Phonebook address and you can directly access to the corresponding remote phonebook on the phone.

For example: Set the Phonebook Name as fanvil, Server URL is tftp://192.168.1.3/admin/phonebook/index.xml.

Or Set the Phonebook Name as ldap, Server URL is

ldap://192.168.1.3/dc=winline,dc=com.

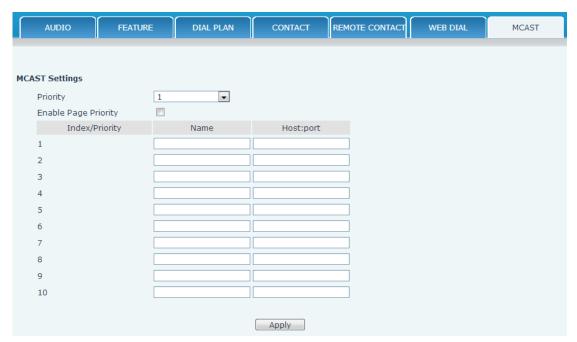
Remote Phonebook Setting	
Phonebook Name	Custom the phonebook name displayed on the
	phone.
Server URL	Specify the server url of the remote phonebook.
SIP Line	Specify the sip line for the remote phonebook.
Authentication	Specify the authentication mode for remote
	phonebook.
User/password	Input the authentication username and
	password.

#### 8.3.4.6 WEB DIAL

AUDIO	FEATURE	DIAL PLAN	CONTACT	REMOTE CONTACT	WEB DIAL	MCAST
Web Dial Settings						
Dial Number				Di-I		
Line Selection			•	Dial	Hangup	

You can make a call through the WEB DIAL, enter the Dial Number then press Dial, if you want to finish the talk, press Hang-up.

#### 8.3.4.7 MCAST



Use the multicast function to send notice to every member of the multicast is simple and easy. By setting the multicast key on your phone, you can send multicast RTP flow to the pre-configured multicast address. By listening multicast address is configured on the phone, listen and play the multicast address to send the RTP stream.

### Send multicast setting

On the phone web page, function key-function key, set a function key, as shown



Value format IP:Port, the IP address of multicast is range from 224.0.0.0 to

239.255.255.255,port is greater than 1024

If multicast codec is G722, the LCD screen will displays "HD", which means the phone is sending high-definition voice stream Operate steps:

1. When the phone is idle, press multicast key

Multicast RTP stream is sended to pre-configured multicast address (IP: Port). The phone which listens to multicast address in the local network can receive the RTP stream. Multicast functionkey LED lights yellow. LCD screen displays the following:



- 2. Press the hold softkey to hold the current multicast session
- 3. Press the end softkey again or multicast functionkey, multicast session can be stopped

Notice: RTP stream is one side, that is from a sender to a receiver. when the phone initiates a multicast RTP session in a call, the current call is on hold.

#### Receive multicast setting

You can set up the phone monitoring 10 different multicast addresses to receive these multicast RTP stream.

You have two method to receive RTP stream of multicast that can be set up through the web page: Enable priorities of normal calls and Enable page Priority:

Enable priorities of normal call by select it, if the incoming RTP stream priority of multicast lower than the priority of current for normal calls, the phone will ignore the RTP stream of multicast. If the incoming RTP stream priority of multicast higher than the priority of current for normal calls, the phone will receive the RTP stream of multicast, and hold the current call.

Disabled priorities of normal call by select disable, the phone will ignore all local network RTP stream of multicast.

Options as follows:

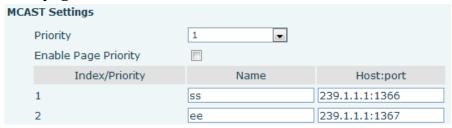
1-10:the priority defined for normal calls,1 the highest level,10 the lowest level

Disabled: Ignore all RTP stream of multicast

### **Enable Page Priority**

Page priority determines the phone how to handle the newly received multicast RTP stream when in a multicast session. Enabled page priority, the phone will automatically ignore the low priority multicast RTP stream and receive the high priority multicast RTP stream and hold the current multicast session; If not enabled, the phone will automatically ignore all incoming multicast RTP stream.

Web page is set as follows:



Now multicast ss has higher priority than multicast ee, the highest priority is for normal calls

Notice: When a multicast session begins, multicast sender and receiver will beep

# 8.3.5FUNCTION KEY

### 8.3.5.1 SOFTKEY

Softkey Settings	Softkey Mode More Screen Call Dia	aler v
	Unselected Softkeys Se	elected Softkeys
	Call Back(CBack) Clear  N	pelete Jone oial ixit

## **SOFTKEY**

You can configure different functions in different screens for every softkey.

### 8.3.6 Maintenance

#### 8.3.6.1 Auto Provision

AUTO PROVISION	SYSLOG	CONFIG	UPDATE	ACCESS	REBOOT	
Auto Provision Setti	ngs					
Current Config \( \) Common Config CPE Serial Numl	Version		010000000010e597	7052		
User Password		user				
Config Encryption	on Kev	••••				
	Encryption Key					
	ision Information					
DHCP Option Setting	gs >>					
Plug and Play (PnP)	Settings >>					
Phone Flash Setting	s >>					
TR069 Settings >>						
			Apply			
DHCP Option Setting	gs >>					
DHCP Option Se		DHCP Option 66	5			
Custom DHCP C		66	(128~254)			
Plug and Play (PnP)	Settings >>					
Enable PnP PnP Server PnP Port PnP Transport PnP Interval		224.0.1.75 5060 UDP ▼	hour(s)			
Phone Flash Settings	;>>					
Server Address Config File Name Protocol Type Update Interval	3	0.0,0.0 FTP •	hour(s)			
Update Mode		Disabled	▼			

Fanvil endpoint supports PnP and DHCP and Phone Flash to obtain the parameters. The PnP and DHCP and Phone Flash are all deployed, endpoint will go by the following process to try to obtain the server address and other parameters, when it boots up:

DHCP option → PnP server → Phone Flash

# **Auto Provision**

Auto Update Setting  Current Config Version of the configuration downloaded is higher than the version of the running configurations, the auto provision would upgrade, or stop here. If the endpoints confirm the configuration by Digest method, the endpoints wouldn't upgrade configuration unless the configuration in the server is different with the running configuration.  Common Config Version Show the common config file's version. If the configuration downloaded and the running configuration would stop here. If the endpoints confirm the configuration by Digest method, the endpoints wouldn't upgrade configuration unless the configuration by Digest method, the endpoints wouldn't upgrade configuration unless the configuration in the server is different with the running configuration.  CPE Serial Number  User Specify FTP/HTTP/HTTPS server Username. System will use anonymous if username keep blank.  Password Specify FTP/HTTP/HTTPS server Password.  Config Encrypt Input the Encrypt Key, if the configuration file is encrypted.  Common Config Input the Common Encrypt Key, if the Common Configuration file is encrypted.  Save see username and password authentication message of http/https/ftp and input ID message in the phone until the url in the server changes.  DHCP Option Specify DHCP Option. DHCP option supports DHCP option 43 to obtain the parameters. You could choose one method among them; the default is DHCP option disable.  Custom DHCP A valid Custom DHCP Option is from 128 to 254.  The Custom DHCP Option is the DHCP server.	Field name	explanation
Current Config Version  Of the configuration downloaded is higher than the version of the running configurations, the auto provision would upgrade, or stop here. If the endpoints configuration by Digest method, the endpoints wouldn't upgrade configuration unless the configuration in the server is different with the running configuration.  Common Config Version  Common Config Version  Configuration downloaded and the running configuration would stop here. If the endpoints confirm the configuration by Digest method, the endpoints wouldn't upgrade configuration unless the configuration in the server is different with the running configuration would stop here. If the endpoints confirm the configuration by Digest method, the endpoints wouldn't upgrade configuration unless the configuration in the server is different with the running configuration.  CPE Serial Number  User  Specify FTP/HTTP/HTTPS server Username. System will use anonymous if username keep blank.  Password  Specify FTP/HTTP/HTTPS server Password.  Input the Encrypt Key, if the configuration file is encrypted.  Common Config Encrypt Key  Common Config Encrypt Key  Save the username and password authentication message of http/https/ftp and input ID message in the phone until the url in the server changes.  DHCP Option  Setting  DHCP Option  Specify DHCP Option. DHCP option supports DHCP custom option and DHCP option 66 and DHCP option 43 to obtain the parameters. You could choose one method among them; the default is DHCP option disable.  Custom DHCP  Option  The Custom DHCP Option must be in accordance	Auto Update	
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method, the endpoints wouldn't upgrade configuration unless the configuration in the server is different with the running configuration.  Common Config Version Show the common config file's version. If the configuration downloaded and the running configuration are the same, the auto provision would stop here. If the endpoints confirm the configuration by Digest method, the endpoints wouldn't upgrade configuration unless the configuration in the server is different with the running configuration.  CPE Serial Number Show CPE Serial Number.  User Specify FTP/HTTP/HTTPS server Username. System will use anonymous if username keep blank.  Password Config Encrypt Key Input the Encrypt Key, if the configuration file is encrypted.  Common Config Encrypt Key Configuration file is encrypted.  Save Save the username and password authentication message of http/https/ftp and input ID message in the phone until the url in the server changes.  DHCP Option Setting  DHCP Option Setting  DHCP Option Specify DHCP Option. DHCP option supports DHCP option 43 to obtain the parameters. You could choose one method among them; the default is DHCP option disable.  Custom DHCP Option The Custom DHCP Option is from 128 to 254.  The Custom DHCP Option must be in accordance		provision would upgrade, or stop here. If the
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configuration by Digest method, the endpoints wouldn't upgrade configuration unless the configuration in the server is different with the running configuration.  CPE Serial Number Show CPE Serial Number.  User Specify FTP/HTTP/HTTPS server Username. System will use anonymous if username keep blank.  Password Specify FTP/HTTP/HTTPS server Password.  Config Encrypt Input the Encrypt Key, if the configuration file is encrypted.  Common Config Encrypt Configuration file is encrypt Key.  Save Save the username and password authentication message of http/https/ftp and input ID message in the phone until the url in the server changes.  DHCP Option Specify DHCP Option. DHCP option supports DHCP custom option and DHCP option 66 and DHCP option 43 to obtain the parameters. You could choose one method among them; the default is DHCP option disable.  Custom DHCP  Option The Custom DHCP Option must be in accordance		configurations are the same, the auto provision
wouldn't upgrade configuration unless the configuration in the server is different with the running configuration.  CPE Serial Number Show CPE Serial Number.  User Specify FTP/HTTP/HTTPS server Username. System will use anonymous if username keep blank.  Password Specify FTP/HTTP/HTTPS server Password.  Config Encrypt Input the Encrypt Key, if the configuration file is encrypted.  Common Config Input the Common Encrypt Key, if the Common Configuration file is encrypted.  Save Save the username and password authentication message of http/https/ftp and input ID message in the phone until the url in the server changes.  DHCP Option Specify DHCP Option. DHCP option supports DHCP custom option and DHCP option 66 and DHCP option 43 to obtain the parameters. You could choose one method among them; the default is DHCP option disable.  Custom DHCP Option The Custom DHCP Option must be in accordance		would stop here. If the endpoints confirm the
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CPE Serial Number  User Specify FTP/HTTP/HTTPS server Username. System will use anonymous if username keep blank.  Password Specify FTP/HTTP/HTTPS server Password.  Config Encrypt Key Common Config Encrypt Key Common Config Encrypt Key Configuration file is encrypted.  Save Save Save the username and password authentication message of http/https/ftp and input ID message in Information Information DHCP Option Setting DHCP Option Setting DHCP Option Setting DHCP Option Specify DHCP Option. DHCP option supports DHCP custom option and DHCP option 66 and DHCP option 43 to obtain the parameters. You could choose one method among them; the default is DHCP option Custom DHCP Option The Custom DHCP Option is from 128 to 254. Option The Custom DHCP Option must be in accordance		wouldn't upgrade configuration unless the
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System will use anonymous if username keep blank.  Password Specify FTP/HTTP/HTTPS server Password.  Config Encrypt Input the Encrypt Key, if the configuration file is encrypted.  Common Config Input the Common Encrypt Key, if the Common Configuration file is encrypted.  Save Configuration file is encrypted.  Save Save the username and password authentication message of http/https/ftp and input ID message in the phone until the url in the server changes.  DHCP Option Setting  DHCP Option Specify DHCP Option. DHCP option supports DHCP custom option and DHCP option 66 and DHCP option 43 to obtain the parameters. You could choose one method among them; the default is DHCP option disable.  Custom DHCP A valid Custom DHCP Option is from 128 to 254.  The Custom DHCP Option must be in accordance	<b>CPE Serial Number</b>	Show CPE Serial Number.
Password Specify FTP/HTTP/HTTPS server Password.  Config Encrypt Input the Encrypt Key, if the configuration file is encrypted.  Common Config Input the Common Encrypt Key, if the Common Encrypt Key  Save Configuration file is encrypted.  Save Save the username and password authentication message of http/https/ftp and input ID message in the phone until the url in the server changes.  DHCP Option  Setting  DHCP Option Specify DHCP Option. DHCP option supports DHCP custom option and DHCP option 66 and DHCP option 43 to obtain the parameters. You could choose one method among them; the default is DHCP option  Custom DHCP  Option The Custom DHCP Option must be in accordance	User	Specify FTP/HTTP/HTTPS server Username.
Password Config Encrypt Key Input the Encrypt Key, if the configuration file is encrypted. Common Config Encrypt Key Common Config Encrypt Key Configuration file is encrypted. Save Save the username and password authentication message of http/https/ftp and input ID message in the phone until the url in the server changes.  DHCP Option Setting Custom option and DHCP option 66 and DHCP option 43 to obtain the parameters. You could choose one method among them; the default is DHCP option DHCP Option Custom DHCP Option The Custom DHCP Option must be in accordance		System will use anonymous if username keep
Config Encrypt Key Encrypted.  Common Config Encrypt Key Configuration file is encrypt Key, if the Common Encrypt Key Save Configuration file is encrypted.  Save the username and password authentication Mutoprovision Information Mutoprovision Information DHCP Option Setting  Custom option and DHCP option 66 and DHCP option 43 to obtain the parameters. You could choose one method among them; the default is DHCP option disable.  Custom DHCP Option The Custom DHCP Option must be in accordance		blank.
Keyencrypted.Common ConfigInput the Common Encrypt Key, if the CommonEncrypt KeyConfiguration file is encrypted.SaveSave the username and password authenticationAutoprovisionmessage of http/https/ftp and input ID message inInformationthe phone until the url in the server changes.DHCP OptionSpecify DHCP Option. DHCP option supports DHCPSettingcustom option and DHCP option 66 and DHCPSettingoption 43 to obtain the parameters. You could choose one method among them; the default is DHCP option disable.Custom DHCPA valid Custom DHCP Option is from 128 to 254.OptionThe Custom DHCP Option must be in accordance	Password	Specify FTP/HTTP/HTTPS server Password.
Common Config Encrypt Key Configuration file is encrypted.  Save Save the username and password authentication Mutoprovision Information Information DHCP Option Setting  DHCP Option Setting  DHCP Option Setting  DHCP Option Setting  Custom option and DHCP option 66 and DHCP option 43 to obtain the parameters. You could choose one method among them; the default is DHCP option Custom DHCP Option  A valid Custom DHCP Option must be in accordance	Config Encrypt	Input the Encrypt Key, if the configuration file is
Encrypt Key  Save  Save the username and password authentication  Mutoprovision Information  DHCP Option  Setting  DHCP Option  Setting  DHCP Option  Setting  DHCP Option  Setting  Custom option and DHCP option 66 and DHCP option 43 to obtain the parameters. You could choose one method among them; the default is DHCP option  Custom DHCP  A valid Custom DHCP Option must be in accordance	Key	encrypted.
Save the username and password authentication Autoprovision message of http/https/ftp and input ID message in the phone until the url in the server changes.  DHCP Option Setting  DHCP Option Specify DHCP Option. DHCP option supports DHCP custom option and DHCP option 66 and DHCP option 43 to obtain the parameters. You could choose one method among them; the default is DHCP option disable.  Custom DHCP Option The Custom DHCP Option must be in accordance	Common Config	Input the Common Encrypt Key, if the Common
Autoprovision Information  DHCP Option Setting  DHCP Option Setting  DHCP Option Setting  Specify DHCP Option. DHCP option supports DHCP custom option and DHCP option 66 and DHCP option 43 to obtain the parameters. You could choose one method among them; the default is DHCP option  Custom DHCP  Option  A valid Custom DHCP Option is from 128 to 254.  The Custom DHCP Option must be in accordance	Encrypt Key	Configuration file is encrypted.
Information the phone until the url in the server changes.  DHCP Option  Setting  DHCP Option Specify DHCP Option. DHCP option supports DHCP custom option and DHCP option 66 and DHCP option 43 to obtain the parameters. You could choose one method among them; the default is DHCP option disable.  Custom DHCP A valid Custom DHCP Option is from 128 to 254.  Option The Custom DHCP Option must be in accordance	Save	Save the username and password authentication
DHCP Option Setting  DHCP Option Specify DHCP Option. DHCP option supports DHCP custom option and DHCP option 66 and DHCP option 43 to obtain the parameters. You could choose one method among them; the default is DHCP option disable.  Custom DHCP A valid Custom DHCP Option is from 128 to 254.  Option The Custom DHCP Option must be in accordance	Autoprovision	message of http/https/ftp and input ID message in
Setting  DHCP Option Specify DHCP Option. DHCP option supports DHCP custom option and DHCP option 66 and DHCP option 43 to obtain the parameters. You could choose one method among them; the default is DHCP option disable.  Custom DHCP A valid Custom DHCP Option is from 128 to 254.  Option The Custom DHCP Option must be in accordance	Information	the phone until the url in the server changes.
DHCP Option Specify DHCP Option. DHCP option supports DHCP custom option and DHCP option 66 and DHCP option 43 to obtain the parameters. You could choose one method among them; the default is DHCP option disable.  Custom DHCP Option A valid Custom DHCP Option is from 128 to 254. The Custom DHCP Option must be in accordance	DHCP Option	
Setting custom option and DHCP option 66 and DHCP option 43 to obtain the parameters. You could choose one method among them; the default is DHCP option disable.  Custom DHCP A valid Custom DHCP Option is from 128 to 254.  Option The Custom DHCP Option must be in accordance	Setting	
option 43 to obtain the parameters. You could choose one method among them; the default is DHCP option disable.  Custom DHCP A valid Custom DHCP Option is from 128 to 254.  Option The Custom DHCP Option must be in accordance	DHCP Option	Specify DHCP Option. DHCP option supports DHCP
choose one method among them; the default is DHCP option disable.  Custom DHCP A valid Custom DHCP Option is from 128 to 254.  Option The Custom DHCP Option must be in accordance	Setting	custom option and DHCP option 66 and DHCP
DHCP option disable.  Custom DHCP A valid Custom DHCP Option is from 128 to 254.  Option The Custom DHCP Option must be in accordance		option 43 to obtain the parameters. You could
Custom DHCP A valid Custom DHCP Option is from 128 to 254. Option The Custom DHCP Option must be in accordance		choose one method among them; the default is
Option The Custom DHCP Option must be in accordance		DHCP option disable.
	Custom DHCP	A valid Custom DHCP Option is from 128 to $\overline{254}$ .
with the one defined in the DHCP server.	Option	<u>-</u>
		with the one defined in the DHCP server.

Plug and Play	
Enable PnP	Enable PnP by selecting it, than the phone will send
	SIP SUBSCRIBE messages to a multicast address
	when it boots up. Any SIP server understanding
	that message will reply with a SIP NOTIFY message
	containing the Auto Provisioning Server URL where
	the phones can request their configuration.
PnP Server	Specify the PnP Server.
PnP Port	Specify the PnP Server.
PnP Transport	Specify the PnP Transfer protocol.
PnP Interval	Specify the Interval time, unit is hour.
Phone Flash	
Server Address	Set FTP/TFTP/HTTP server IP address for auto
	update. The address can be IP address or Domain
	name with subdirectory.
Config File Name	Set configuration file's name which need to update.
	System will use MAC as config file name if config
	file name keep blank. For example, 000102030405.
Protocol Type	Specify the Protocol type FTP, TFTP or HTTP.
Update Interval	Specify update interval time, unit is hour.
	Different update modes:
Update Mode	1. Disable: means no update.
	2. Update after reboot: means update after reboot.
	3. Update at time interval: means periodic update.
TR069 Settings	
Enable TR069	Enable TR069 by selecting it.
ACS Server Type	Specify the ACS Server Type.
ACS Server URL	Specify the ACS Server URL.
ACS User	Specify ACS User.
ACS Password	Specify ACS Password.
TR069 Auto Login	Enable TR069 Auto Login by selecting it.
"Inform" Sending	Specify the "inform" Sending Period, unit is second.
Period	

#### 8.3.6.2 SYSLOG

Syslog is a protocol which is used to record the log messages with client/server mechanism. Syslog server receives the messages from clients, and classifies them based on priority and type. Then these messages will be written into log by some rules which administrator can configure. This is a better way for log management.

8 levels in debug information:

Level 0---emergency: This is highest default debug info level. You system cannot work.

Level 1---alert: Your system has deadly problem.

Level 2---critical: Your system has serious problem.

Level 3---error: The error will affect your system working.

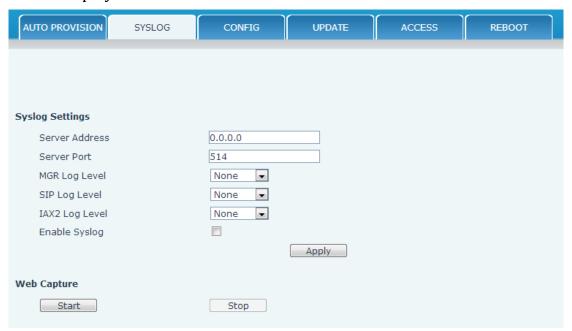
Level 4---warning: There are some potential dangers. But your system can work.

Level 5---notice: Your system works well in special condition, but you need to check its working environment and parameter.

Level 6---info: the daily debugging info.

Level 7---debug: the lowest debug info Professional debugging info from R&D person.

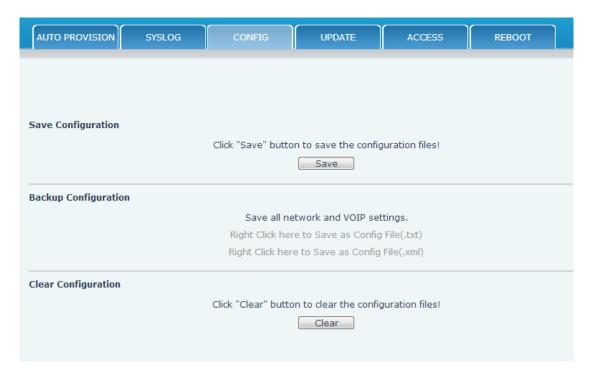
At present, the lowest level of debug information is info; debug level only can be displayed on telnet.



## **Syslog Configuration**

Field name	explanation
Syslog Setting	
Server Address	Set Syslog server IP address.
Server Port	Set Syslog server port.
MGR Log Level	Set the level of MGR log.
SIP Log Level	Set the level of SIP log.
IAX2 Log Level	Set the level of IAX2 log.
Enable Syslog	Select it or not to enable or disable syslog.
Web Capture	
Start	Click the start button when you need capture the
	WAN packet stream of the phone, then open or
	save the file as the interface.

#### 8.3.6.3 CONFIG



# **Config Setting**

Field name	Explanation
Save Configuration	You can save all changes of configurations. Click the
	Save button, all changes of configuration will be
	saved, and be effective immediately.
Backup	Right clicks on "Right click here" and select "Save
Configuration	Target As config File(.txt)" then you will save the
	config file in .txt format, or select "Save Target As
	config File(.xml)" then you will save the config file
	in .xml format.
Clear	User can restore factory default configuration and
Configuration	reboot the phone.
	If you login as Admin, the phone will reset all
	configurations and restore factory default; if you
	login as Guest, the phone will reset all
	configurations except for VoIP accounts (SIP1-2
	and IAX2) and version number.

#### 8.3.6.4 UPDATE

You can update your configuration with your config file in this web page.

AUTO PROVISION	SYSLOG	CONFIG	UPDATE	ACCESS	REBOOT	
<b>Web Update</b> Select	File:	Brow	se (*.z,*.txt,*.xm	l,*.au,*.vcf,*.csv,*.	wav) Update	
TFTP/FTP Update  Server Address User  Password File Name Type Protocol		Application Upda	ite		Apply	
Update Logo File  Delete Logo File		Select File:		Browse U	pdate	
Logo File		Select File: scree		Delete (5779 Bytes)		

# Update

Field name	Explanation
Web Update	-
	Click the browse button, find out the config file
Web Update	saved before or provided by manufacturer,
	download it to the phone directly, press "Update"
	to save. You can also update downloaded update
	file, logo picture, ring, mmiset file by web.
TFTP/FTP Update	
Server Address	Set the FTP/TFTP server address for
	download/upload. The address can be IP address
	or Domain name with subdirectory.
User	Set the FTP server Username for download/upload.
Password	Set the FTP server password for download/upload.
File name	Set the name of update file or config file. The
	default name is the MAC of the phone, such as
	000102030405.
Notice: You can mo	dify the exported config file. And you can also

download config file which includes several modules that need to be

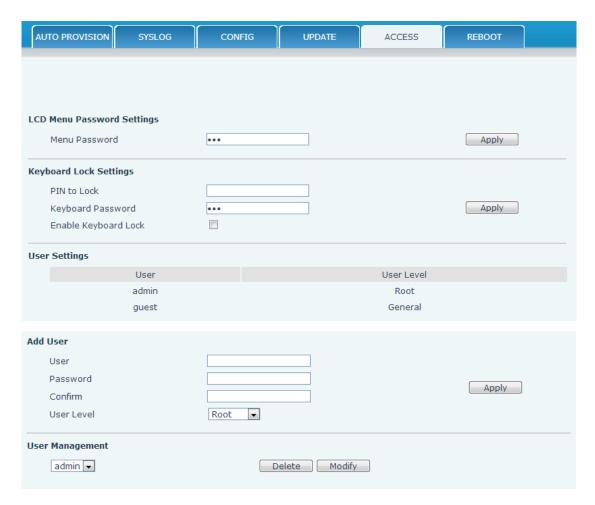
•	uple, you can download a config file just keep with SIP ot, other modules of system still use previous setting
Type	Action type that system want to execute:
	1. Application update: download system update
	file.
	2. Config file export: Upload the config file to
	FTP/TFTP server, name and save it.
	3. Config fie import: Download the config file to
	phone from FTP/TFTP server. The configuration
	will be effective after the phone is reset.
	4. Phone book export (.vcf): Upload the phonebook
	file to FTP/TFTP server, name and save it.
	5. PhoneBook import (.vcf): Download the
	phonebook file to phone from FTP/TFTP server.
Protocol	Select FTP/TFTP server.
Update Logo File	
Select File	Specify the url of the logo file.
Delete Logo File	
Select File	Select the logo that you want to delete.
Logo File	

#### 8.3.6.5 ACCESS

Logo File

You can add or delete user account, and change the authority of each user account in this web page.

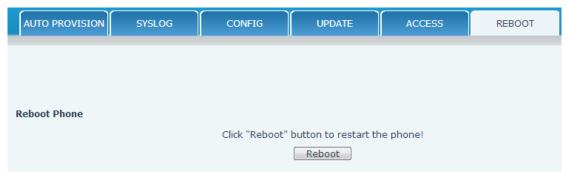
Show the logo file.



# **Access Configuration**

Field name		explanation
Keyboard		Set the password for entering the setting menu of
Password		the phone by the phone's key board. The password is digit.
User Settings		
	User	User Level
	admin	Root
	guest	General
This table show	ws the	e current user existed.
User		Set account user name.
User Level		Set user level, Root user has the right to modify
		configuration, General can only read.
Password		Set the password.
Confirm		Confirm the password.
Select the acco	ount a	nd click the <b>Modify</b> to modify the selected account,
		to delete the selected account.
General user o	nly ca	an add the user whose level is General.

#### 8.3.6.6 REBOOT

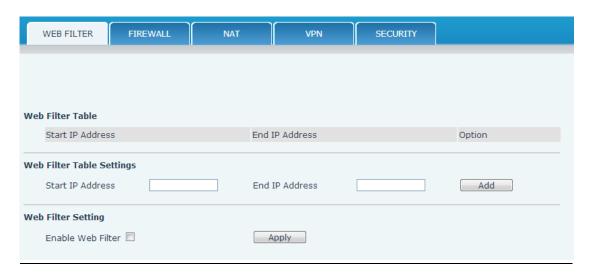


If you modified some configurations which need the phone's reboot to be effective, you need click the Reboot, then the phone will reboot immediately.

**Notice**: Before reboot, you need confirm that you have saved all configurations.

### 8.3.7 SECURITY

#### **8.3.7.1 WEB FILTER**



### **WEB Filter**

User could make some device own IP, which is pre-specified, access to the MMI of the phone to config and manage the phone.

### Field name explanation

Web Filter Table Settings:

Add or delete the IP address segments that access to the phone.

Set initial IP address in the Start IP column, Set end IP address in the End IP column, and click Add to add this IP segment. You can also click Delete to delete the selected IP segment.

Web Filter setting Select it or not to enable or disable Web Filter. Click **Apply** to make it effective.

**Notice:** Do not set your visiting IP outside the Web filter range, otherwise, you cannot logon through the web.

#### **8.3.7.2 FIREWALL**

	WEB FIL	TER F	TREWALL	NAT		VF	PN	SE	CURITY			
Fire	wall Typ		nable Input Ru	les 🗖		Apply		Eı	nable Outpu	ıt Rules		
Fire	wall Inp	out Rule Table	2									
	Index	Deny/Permit I	Protocol Src Ac	ldress	Src Mask		Dest Addre	SS	Dest Mask		Range	Port
Fire		<b>tput Rule Tab</b> Deny/Permit I	ole Protocol Src Ac	Idress	Src Mask		Dest Addre	SS	Dest Mask	:	Range	Port
Fire	wall Set	ttings										
	Input/0	Output	Input		5	Src Addre	:SS					
	Deny/P	ermit	Deny 💌		I	Dest Add	ress					Add
	Protoco		UDP 🔻			Src Mask		L				
	Port Ra	inge	more than	1 🔻		Dest Mas	k					
Dulo I	Delete (	Ontion										
	Input/O	-	Input -	]		Index To	Be Deleted	d [				Delete

## **Firewall Configuration**

In this web interface, you can set up firewall to prevent unauthorized Internet users from accessing private networks connected to the Internet (input rule), or prevent unauthorized private network devices from accessing the Internet (output rule).

Firewall supports two types of rules: input access rule and output access rule. Each type supports at most 10 items.

Through this web page, you could set up and enable/disable firewall with input/output rules. System could prevent unauthorized access, or access other networks set in rules for security. Firewall, is also called access list, is a simple implementation of a Cisco-like access list (firewall). It supports two access lists: one for filtering input packets, and the other for filtering output packets. Each kind of list could be added 10 items.

We will give you an instance for your reference.

Field name	explanation
<b>Enable Input Rules</b>	Select it to Enable Input Rules.

Enable Output Rules	Select it to Enable Output Rules.
Input / Output	Specify current adding rule by selecting input rule or output rule.
Deny/Permit	Specify current adding rule by selecting Deny rule or Permit rule.
Protocol	Filter protocol type. You can select TCP, UDP, ICMP, or IP.
Port Range	Set the filter Port range.
Src Address	Set source address. It can be single IP address,
	network address, complete address 0.0.0.0, or
	network address similar to *.*.*.0.
Des Address	Set the destination address. It can be IP address,
	network address, complete address 0.0.0.0, or
	network address similar to *.*.*.*.
Src Mask	Set the source address' mask. For example,
	255.255.255.255 means just point to one host;
	255.255.255.0 means point to a network which
	network ID is C type.
Dest Mask	Set the destination address' mask. For example,
	255.255.255.255 means just point to one host;
	255.255.255.0 means point to a network which
	network ID is C type.
Click the <b>Add</b> butt	on if you want to add a new output rule.

Click the **Add** button if you want to add a new output rule.

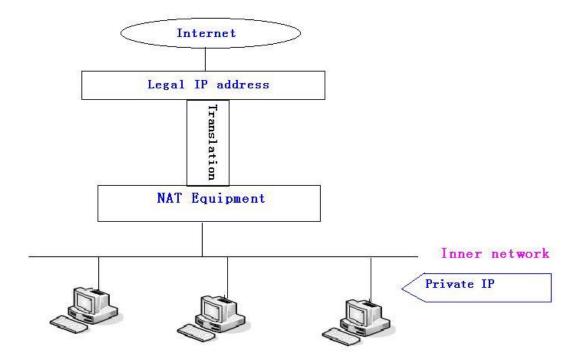
Then enable out access, and click the Apply button.

So when devices execute to ping 192.168.1.118, system will deny the request to send icmp request to 192.168.1.118 for the out access rule. But if devices ping other devices which network ID is 192.168.1.0, it will be normal.

Click the **Delete** button to delete the selected rule.

#### 8.3.7.3 NAT

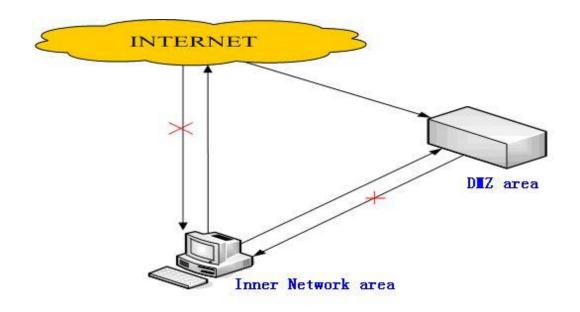
NAT is abbreviated from Net Address Translation; it's a protocol responsible for IP address translation. In other word, it is responsible for transforming IP and port of private network to public, also is the IP address mapping which we usually say.



### DMZ config:

In order to make some intranet equipment support better service for extranet, and make internal network security more effectively, these equipment open to extranet need be separated from the other equipment not open to extranet by the corresponding isolation method according to different demands. We can provide the different security level protection in terms of the different resources by building a DMZ region which can provide the network level protection for the equipment environment, reduce the risk which is caused by providing service to distrust customer, and is the best position to put public information

The following chart describes the network access control of DMZ.





# **NAT Configuration**

Field name	explanation
IPSec ALG	It is an encryption technology. Select it to enable
. <u> </u>	IPSec ALG, the default is enabled.
	FTP is a service of connection layer which can
FTP ALG	transform intranet IP into extranet IP when
	intranet IP is sending out packet.
	Select it to enable FTP ALG, the default is enabled.
PPTP ALG	Select it enable PPTP ALG, the default is enabled.
Shows the NAT	ГСР mapping table

Shows the NAT UDP mapping table

Transfer Type	Select the NAT mapping protocol style, TCP or UDP
Inside IP	Set the IP address of device which is connected to
	LAN interface to do NAT mapping.
Inside Port	Set the LAN port of the NAT mapping
Outside Port	Set the WAN port of the NAT mapping

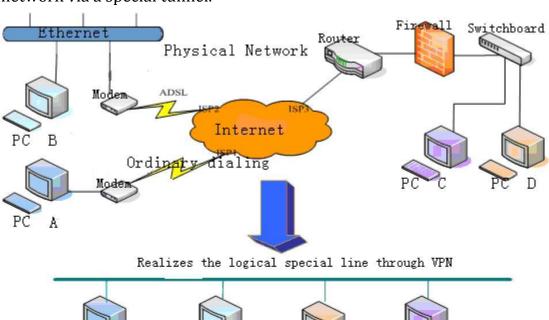
Notice: After finish setting, click the Add button to add new mapping table; click the Delete button to delete the selected mapping table.

Shows the outside WAN port IP address and the inside LAN port IP address.

**Notice:** 10M/100M adaptive means the network card, and other equipment physical consultations speed, testing speed under bridge mode near to 100M, in order to ensure the quality of voice and communications real-time performance, we made some sacrifices of NAT under the transmission performance. Transmit with full capability only when system is idle, so cannot guarantee that the transmission speed reach to 100M.

#### 8.3.7.4 VPN

This web page provides us a safe connect mode by which we can make remote access to enterprise inner network from public network. That is to say, you can set it to connect public networks in different areas into inner network via a special tunnel.





# **VPN Configuration**

Field name	explanation			
VPN IP	Shows the current VPN IP address.			
Select L2TP. You can choose only one for current state. After you select				
it, you'd better save configuration and reboot your phone.				
Enable VPN	Select it or not to enable or disable VPN.			
VPN Server	Set VPN L2TP Server IP address.			
Address				
VPN User	Set User Name access to VPN L2TP Server.			
VPN Password	Set Password access to VPN L2TP Server.			

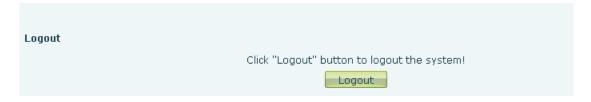
#### **8.3.7.5 SECURITY**



# Security

Field name	explanation	
Update Security		
File		
Select Security File	Select the security file you want to update, then	
	click Update button to update.	
Delete Security File		
Select Security File	Select the security file you want to delete, then	
	click Delete button to update.	
SIP TLS File	Show SIP TLS authentication certification file.	
HTTPS File	Show HTTPS authentication certification file.	
Open VPN Files	Show Open VPN File authentication certification	
	file.	

## **8.3.8 LOGOUT**



Click **Logout**, and you will exit web page. If you want to enter it next time, you need input user name and password again.

# 9 Appendix

### 9.1.1 Specification Hardware

Item		F52(P)	
Adapter		Input: 100-240V	
(Input / Output)		Output: 5V 1A	
port	WAN	10/100Base- T RJ-45 1 PORT	
	LAN	10/100Base- T RJ-45 1 PORT	
Power		Idle: 2.5W/Active: 2.8W	
Consump	otion		
LCD Size		128x48	
		62 x 22mm	
Operation		0~40℃	
Temperature			
Relative Humidity		10~65%	
CPU E		Broadcom VoIP chipset	
SDRAM		16MB	
Flash		4MB	
Dimension(L x W x		$155 \times 185 \times 130 \text{mm}$	
H)			
Weight	Weight 0.84kg		

### 9.1.2 Voice features

- SIP supports 2 SIP servers
- Support SIP 2.0 (RFC3261) and correlative RFCs
- Support IAX2
- Support multiple call queuing
- Support IAX2 line key to call
- Codec: G.711A/u, G.723.1, G.729a/b, G.722.1, G.726
- Support HD voice
- Echo cancellation: G.168 Compliance in LEC, additional acoustic echo cancellation(AEC) can reach 96ms max filter length in hands-free mode
- Support Voice Gain Setting, VAD, CNG
- Support full duplex hands-free
- SIP support SIP domain, SIP authentication(none basic, MD5), DNS name of server, Peer to Peer/ IP call

- Support DTMF type: SIP info, DTMF Relay, RFC2833
- Support 9 systems ringtones and three user-defined ringtongs
- Soft keys programmable
- SIP application: support Call forward / transfer (blind transfer / attended transfer / Ringing Transfer) / Call hold / call waiting / conference call / paging and intercom / call park / then grab / interpolation / Automatic Callback / Click call / auto secondary dial /
- Flexible call control functions: flexible dialing, support hotline number, calling reject, reject blacklist, certification calls, white list barring, do not disturb, speakerphone automatic answer, caller ID, anonymous calls, outgoing calls etc.
- Support phonebook 500 records, Incoming calls / outgoing calls / missed calls. Each supports 300 records.
- Support SMS
- Support MWI
- Support XML phonebook/browser
- Support Speed dial
- Support SRTP
- Code synchronization via IP PBX/IMS
- Support click to dial via web phone book
- Voice codec setting for each SIP line
- Customized lcd logo
- Headset, speakerphone Ringing Selection
- Ringing tone custom configuration parameters
- Group listening

#### 9.1.3 Network features

- WAN/LAN: support bridge and router model
- Support basic NAT and NAPT
- Support PPPoE for xDSL
- Support VLAN (optional: voice vlan/ data vlan)
- NAT Penetrate, Stun Penetrate
- Support DMZ
- Support VPN (L2TP/OPEN VPN) function
- Wan Port supports main DNS and secondary DNS server can select dynamically to get DNS in DHCP mode or statically set DNS address.
- Support DHCP client on WAN
- Support DHCP server on LAN
- QoS with DiffServ
- Network tools in telnet server: including ping, trace route, telnet client

### 9.1.4 Maintenance and management

- Upgrade firmware through POST mode
- Web ,telnet and keypad management
- Management with different account right
- LCD and WEB configuration can be modified into requested language, and support multi-language dynamically shifted
- Upgrade firmware through HTTP, FTP or TFTP Telnet remote management/upload/download setting file
- Support Syslog
- Support Auto Provisioning (upgrade firmware or configuration file)

## ■ 9.2 Digit-character map table

Keypad	Character	Keypad	Character
1	1 @	7 PQRS	7 P Q R S p q r s
2 ABC	2 A B C a b c	<b>8</b>	8 T U V t u v
3 DEF	3 D E F d e f	9 wxyz	9 W X Y Z w x y z
4 GHI	4 G H I g h i	*.	*/.
7 JKL	5 J K L j k l	0	0
6 MNO	6 M N O m n o	# SEND	#/SEND