## **User Manual**



# Safety Notices

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
  powers 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°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 DPH-150S/DPH-150SE VoIP Phone

# 1.1 Thank you for your purchasing DPH-150S/DPH-150SE

Thank you for your purchasing DPH-150S/DPH-150SE. DPH-150S/DPH-150SE 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:

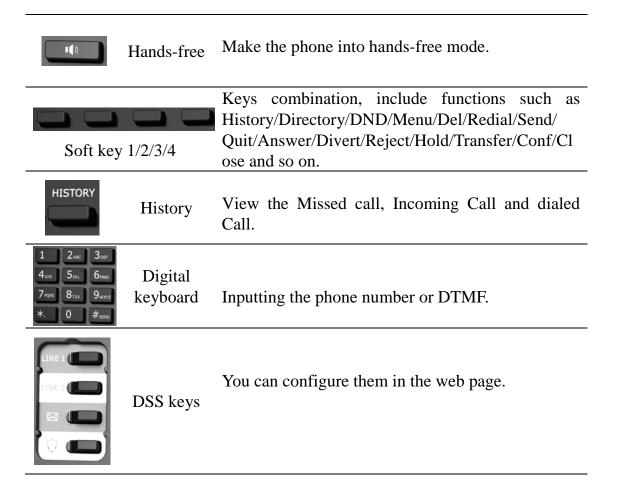
Item	Description				
IP Phone	DPH-150S/DPH-150SE Phone wit display and				
	keypad.				
Power Adapter	Power supply for telephone.				
Network Cable	Used to access network for the phone.				
Handset	Make phone calls with the phone's basic functions.				
Handset Cord	Connected with the handset and the phone.				
<b>Quick Installation Guide</b>	Quick install the DPH-150S/DPH-150SE guide.				
CD	Containing manual and quick installation guide.				
Warranty Safety Information	Warranty Safety Information for				
	DPH-150S/DPH-150SE.				

IP Phone are designed to look like conventional phones, the following photo shows a broad overview of the IP Phone.



## 1.3 Keypad

Key	Key name	Function Description		
Navigation		Navigation key assist users for operating. In desktop, dialer, calling, desktop long pressed state they have special function. You can configure through the web page according to your patterns of use.		
DIRECTORY	Directory	Access to phone book, check the record list and add new records and revise the record. When check the phone book record, press this key again will return to idle mode.		
MUTE	Mute	Press this key in calling mode, you can hear the other side, and the other side cannot hear you.		
•	Volume -/+	Turn down or turn up the volume by pressing these two keys.		
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> </ol>		



## 1.4 Port for connecting

Port	Port name	description
<u>•</u>	Power switch	Input: 5V AC, 1A
	WAN	10/100M Connect it to Network
	LAN	10/100M Connect it to PC
	External console interface	Port type: RJ-11 direct connector
	Headset	Port type: RJ-9 connector
	Handset	Port type: RJ-9 connector

## 1.5 Icon introduction

Icon	Description
	Call out
<b>((a)</b> )	Call in
<u> </u>	Call hold
AA	Auto answer
<u> </u>	Call mute
1	Contact
рио	DND(Do not Disturb)
(4)	In hand-free mode
~	In handset mode
23	In headset mode
$\boxtimes$	SMS
브	Missed call
	Call forward

## 1.6 LED introduction

Table 1 Programmable key LEDs for BLF

LED Status	Description
Steady green	The object is in idle status.
Slow blinking red	The object is ringing.
Steady red	The object is active.
Fast blinking red	The object is failed.
Off	No subscribe.

Table 2 Programmable key LEDs for Presence

LED Status	Description
Steady green	The object is online.
Slow blinking red	The object is ringing.
Steady red	The object is active.
Fast blinking red	The object is failed.
Off	No subscribe.

Table 3 Programmable key LEDs for line

LED Status	Description
Steady green	The account is active.
Fast Blinking red	There is an incoming call to the account.
Slow Blinking red	The call is on hold.
Slow Blinking red	Registration is unsuccessful.
Off	The line is not unapplied or idle.

Table 4 Programmable key LEDs for MWI

LED Status	Description
Blinking red	There are new voice mails.
Off	There is no new voice mail.

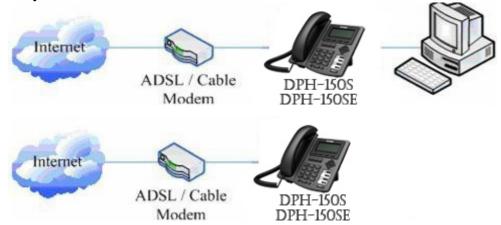
## 2 Initial Connecting and Settings

## 2.1 Connect the phone

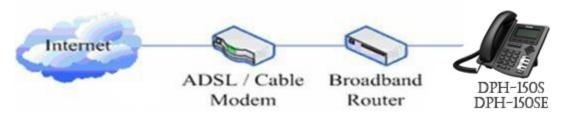
#### 2.1.1 Connect to network

Step 1: Connect the IP Phone to the corporate IP telephony network. Before you connect the phone to the network, please check if your network can work normally.

You can do this in one of two ways, depending on how your workspace is set up. Direct network connection—by this method, you need at least one available Ethernet port in your workspace. Use the Ethernet cable in the package to connect WAN port on the back of your phone to the Ethernet port in your workspace. Since this VoIP Phone has router functionality, whether you have a broadband router or not, you can make direct network connect. The following two figures are for your reference.



Shared network connection—Use this method if you have a single Ethernet port in your workspace with your desktop computer already connected to it. First, disconnect the Ethernet cable from the computer and attach it to the WAN port on the back of your phone. Next, use the Ethernet cable in the package to connect LAN port on the back of your phone to your desktop computer. Your IP Phone now shares a network connection with your computer. The following figure is for your reference.



- Step 2: Connect the handset to the handset port by the handset cable in the package.
- Step 3: connect the power supply plug to the AC 5V adapter port on the back of the phone. Use the power cable to connect the power supply to a standard power outlet in your workspace.
- Step 4: push the on/off switch on the back of the phone to the one side, then the phone's LCD screen displays "Initializing wait logon". Later, a ready screen typically displays the date, time.

If your LCD screen displays different information from the above, you need refer to the next section "Initial setting" to set your network online mode.

If your VoIP phone registers into corporate IP telephony Server, your phone is ready to use.

#### 2.1.2 Power adaptor connection

Make sure that the power you use is comply with the parameters of power adaptor.

- 1. Plug power adaptor to power socket.
- 2. Plug power adaptor's DC output to the DC5V port of DPH-150S/DPH-150SE 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

DPH-150S/DPH-150SE 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

Make sure that network is connected already before setting network of phone. DPH-150S/DPH-150SE 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 gateways which were set just now, it shows that DHCP mode takes effect.

## 3 Basic Function

## 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, **I** 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 then choose the method you will use to speak to the other party.

#### 3.1.2 Call Methods

You can press an available line button if there is more than one account, then

- 1. Dial the number you want to call.
- 2. Press History softkey, use the navigation buttons to highlight your choice (press Left/Right button to choose Missed Calls, Incoming Calls and Outgoing Calls.
- 3. Press the R/SEND button to call the last number called.
- 4. Press the programmable keys which are set as speed dial button.

Then press the Send button or Dial softkey to make the call if necessary.

## 3.2 Answering a call

#### Answering an incoming call

- 1. If you are not on another phone, lift the handset using, or press the Speaker button/ Answer softkey to answer using the speaker phone, or press the headset button to answer the headset.
- 2. If you are on another call, press the answer softkey.

During the conversation, you can alternate between Headset, Handset 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

- 1. Press the Hold button or Hold softkey to put your active call on hold.
- 2. If there is only one call on hold, press the hold softkey to retrieve the call.
- 3. 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 Mute

Press Mute button during the conversation, icon <u>u</u> will be showed in the LCD.

Then the called will not hear you, but you can hear the called. Press it again to get the phone to normal conversation.

#### 3.8 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).

## 3.9 3-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.

## 3.10 Multiple-way call

If user has 2 line calls and wants to invite the three party during the call, they can press Conf or Transf "New Call", press OK, enter the number ,then press Send and wait for the other party to answer. When the multiple-way calls, you can press the arrow keys to select a call.

## 4 Advanced Function

## 4.1 Call pickup

Call pickup is implemented by simulating pickup function of PBX. it's that, when A calls B, B rings but no answer, at this moment, C can hook off and input an appointed prefix plus B's number, pick up A's call and talk with A.

The following chart shows how to configure an appointed prefix in dial peer to have call pick up function.

Number	Destination	Port	Mode	Alias	Suffix	Deleted Length
*1*T	0.0.0.0	5060	SIP	rep:pickup	no suffix	3

<sup>\*1\*</sup> means appointed prefix code. After making the above configuration, C can dial \*1\* plus B's phone number to pick up A's call. User can set prefix in random, in the case of no affecting current dialing rules.

#### 4.2 Join call

When B is calling C, A can join in the existing call by inputting an appointed prefix numbers plus B or C number, if B or C also supports join call. The following chart shows how to configure an appointed prefix in dial peer to have join call function.

Number	Destination	Port	Mode	Alias	Suffix	Deleted Length
*2*T	0.0.0.0	5060	SIP	rep:joincall	no suffix	3

<sup>\*2\*</sup> means appointed prefix code. After making the above configuration, A can dial \*2\* plus B or C number to join B and C's call. User can set prefix in random, in the case of no affecting current dialing rules.

## 4.3 Redial / Unredial

If B is in busy line when A calls B, A will get notice: busy, please hang up. If A want to connect B as soon as B is in idle, he can use redial function at the moment and he can dials an appointed prefix number plus B's number to realize redial function.

What is redial function? A can't not build a call with B when B is in busy, then A will subscribe B's calling mode at 60 second intervals. Once B is available, A will get reminder of rings to hook off, while a hooks off, A will call B automatically. If at this time A is occupied temporarily and unwilling to contact B, A also can cancel the redial function by dialing an appointed prefix plus B's number before making the redial function.

Number	Destination	Port	Mode	Alias	Suffix	Deleted Length
*3*T	0.0.0.0	5060	SIP	rep:redial	no suffix	3
*4*T	0.0.0.0	5060	SIP	rep:unredial	no suffix	3

<sup>\*3\*</sup> is appointed prefix code. After making the above configuration, A can dial

User can set prefix in random, in the case of no affecting current dialing rules.

#### 4.4 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.

#### 4.5 Call back

This function allows you dial out the last phone call you received.

#### 4.6 Auto answer

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

#### 4.7 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.

## 4.8 Application

#### 4.8.1 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.

<sup>\*3\*</sup> plus B's phone number to make the redial function.

<sup>\*4\*</sup> is appointed prefix code. After configuration, A can dial \*4\* to cancel redial function.

- 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.

#### 4.8.2 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.

#### 4.8.3 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.

## 4.9 Programmable Key Configuration

The phone has 4 programmable keys which are able to set up to many functions per key. The following list shows the functions you can set on the programmable keys and provides a description for each function. The default configuration for each key is N/A which means the key hasn't been set for any functions.

1. Set the type as Memory Key

Press Menu->Settings->Basic Settings->Enter->Keyboard->DSS Key Settings, you have two options: Line Key Settings and Function Key Settings, choose one you want to make the assignment, use the navigation key to choose the type as memory key. In the Dial field, you have some options, such as Normal, Speed Dial, Intercom, BLF, Presence, and MWI.

#### Speed dial

You can configure the key as a simplified speed dial key. This key function allows you to easily access your most dialed numbers.

#### Intercom

You can configure the key for Intercom code and it is useful in an office

environment as a quick access to connect to the operator or the secretary.

#### **BLF**

BLF is also called "Busy lamp field", and it is used to prompt the user to pay attention to the state of the object than has been subscribed, and used to cooperate with the server to pick up the phone call. You can configure the key for Busy Lamp Field (BLF) which allows you to monitor the status (idle, ringing, or busy) of other SIP account. User can dial out on a BLF configured key. Please refer to "LED Instruction" for more detail about the LED status in different situation. Note: In the Web interface, you can also set the pickup number to active the pickup function. For example, if you set the BLF number as 212, and the pickup number is 189, then when there is an incoming call to 212, press the BLF key, it will call out the 189 automatically to pick up the incoming call on 212.

#### **Presence**

Presence is called present, and compared to the BLF, it can also check whether object online.

Note: You can subscribe the BLF and presence station of the same number at the same time.

#### **MWI**

When the key is configured as MWI, you are allowed to access voicemail quickly by pressing this key.

2. Set the type as Line

You can set these keys as line keys, and press it, it will enter dialer interface.

3. Set the type as Key Event

You can set these keys as Key Event, and the subtype have many options. Choose one and it will have corresponding function.

- None
- Auto Redial Off
- Auto Redial On
- Call Back
- Call Forward
- DND
- Flash
- Headset
- History
- Hold
- Hot Desking: Pressing the key, you can clear all sip information and register yourself sip information.
- Join
- Lock: Pressing the key, you can lock the keyboard.
- Memo
- MWI
- Phonebook
- Pickup
- Prefix

- Redial
- Release: Pressing the key, you can end the call.
- SMS
- Transfer
- 4. Set the type as Dtmf

You can configure the key as Dtmf. This key function allows you to easily dial or edit dial number.

#### 5. Set the type as URL

You need to match a XML Phonebook address, pressing the button you can directly access the corresponding remote phonebook.

#### 6. Set the type as BLF List Key

It needs the cooperation with the Broadsoft server. The traditional BLF is that every number will need to be subscribed, so if the numbers that subscribed is so many that it will cause to obstruction. However, BLF List Key will put the numbers that needed to be subscribed in a group, and the phone use the URL of the group to subscribe and analyze the specific information of each number such as number, name, state and so on according to the notifications from the server. Then set the idle Memory key as BLF List Key, later if the state of an object changes, the corresponding LED will change.

## **5 Other Functions**

#### 5.1 Auto 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.

## 5.2 Ban Anonymous Call

- 1. Press Menu ->Features-> Enter->Ban Anonymous Call-> Enter.
- 2. Choose which sip you want to enable Ban Anonymous Call, and then press Enter, choose Enabled or Disabled through navigation key.
- 3. If you choose Enabled, the others can't call the phone by anonymous. If you choose Disabled, the others can call the phone by anonymous.

#### 5.3 Dial 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.

#### 5.4 Dial Peer

- 1. Press Menu ->Features-> Enter-> Dial Peer-> Enter.
- 2. Press Add to enter the Edit interface, and then input some information. For example: Number: 1T, Dest.: 0.0.0.0, Port: 5060, Mode: SIP, Alisa: all:3333, Suffix: no suffix, Del Len: 0. Then press Save. Then press Save.
- 3. Input 1+number (1234) in the dial interface, you can dial out 3333. You can refer to 8.3.3.4 DIAL PEER.

#### 5.5 Auto 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.

## 5.6 Call 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.

## 5.7 Ring From Headset

- 1. Press Menu ->Features-> Enter->Ring From Headset-> Enter.
- 2. Enable this function through the navigation key, the phone connects the headset, when the phone has an incoming call, it will ring from the headset.

## 5.8 Power Light

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

#### 5.9 Hide 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.

#### 5.10 Password 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.

#### 5.11 Action URL & Active URI

- 1. Action URL: The action that the phone carries out e.g. open dnd can produces one URL, then the phone can send the HTTP Get of the URL to PC, then the phone can report the action to the PC.
- 2. Active URI: Enter the web page of the phone, PHONE->FEATURE, input Active URL Limit IP, You can input internet server (e.g. PC'IP), PC can send one URL to the phone, the phone will produce one action for example open dnd, so PC can control the phone.

#### 5.12 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** Basic Settings

## 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, SoftKey, 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.
- 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. DPH-150S/DPH-150SE support only one languages, you cann't use the navigation keys to choose. The default one languages is English

## 7 Advanced Settings

#### 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

DPH-150S/DPH-150SE 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) 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.xxx/ or http://xxx.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 config 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**

DPH-150S	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGOUT
STATUS	WAN						
WIZARD		Connecti	on Mode:	DHCP			
CALL LOG		MAC Add	ress:	00:a8:5	9:c6:00:5f		
LANGUAGE		IP Addre	955:	192.168	3.3.232		
		IP Gatev	vay:	192.168	3.1.1		
	LAN						
		IP Addre	955:	192.169	9.10.1		
		DHCP Se	ervice:	Enabled	i		
		Bridge M	lode:	Enabled	I		
	Accounts						
		SIP Line	1: 23	32@192.168.1.2 :5	5060	Regist	ered
		SIP Line	2: @	:5060		Unapp	lied

### **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

Accounts	Shows the phone numbers provided by the SIP LINE
	1-2 servers .The last line shows the version number
	and issued date.

#### 8.3.1.2 **WIZARD**

DPH-150S	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGOUT
STATUS	WAN Conne	ection Mode					
WIZARD		Static IP		0			
CALL LOG		DHCP		•			
LANGUAGE		PPPoE		0			
				Ne:	xt		
BROADBAND							

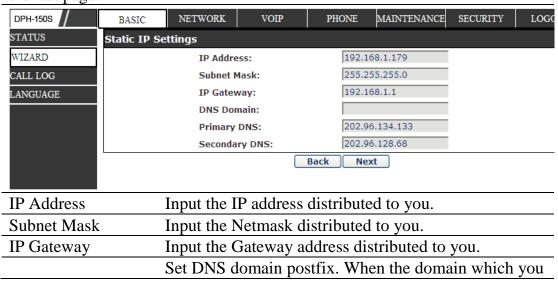
#### Wizard

Please select the proper network mode according to the network condition. DPH-150S/DPH-150SE provide three different network settings:

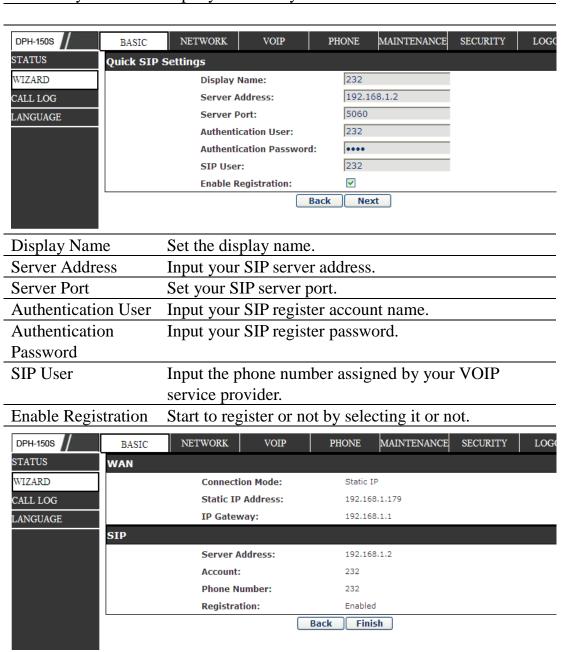
- Static: If your ISP server provides you the static IP address, please select this mode, and then finish Static Mode setting. If you don't know about parameters of Static Mode setting, please ask your ISP for them.
- DHCP: In this mode, you will get the information from the DHCP server automatically; 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 config the network and

SIP(default SIP1)simply, also can browse too. Click **【BACK】** can return to the last page.



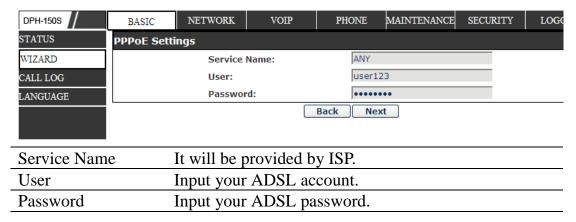
<b>DNS Domain</b>	input cannot be parsed, phone will automatically add	
	this domain to the end of the domain which you input	
	before and parse it again.	
Primary DNS	Input your primary DNS server address.	
Secondary DNS	Input your standby DNS server address.	



Display detailed information that you manual config.

Choose DHCP MODE, click Nest 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 Nest 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



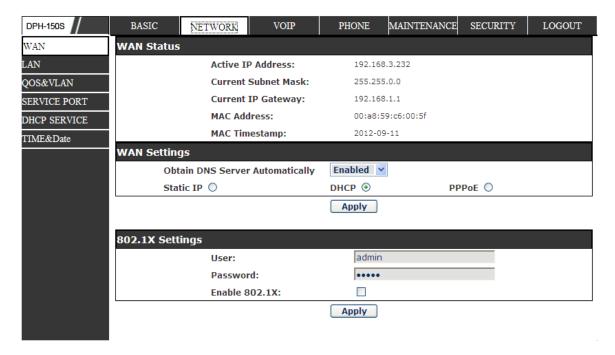
**LANGUAGE** 

Field name	explanation
Language	Set the language of phone, English is default.
Greeting Words	The greeting words will display on LCD when phone is idle. It can support 12 chars, the default chars are
	VOIP PHONE.

Notice: the maximal length of the greeting message is sixteen English characters and five Chinese characters.

#### 8.3.2 NETWORK

#### 8.3.2.1 WAN



#### **WAN Status**

WAN Status			
Activ	e IP Address:	192,168.3.232	
Curre	ent Subnet Mask:	255.255.0.0	
Curre	ent IP Gateway:	192.168.1.1	
MAC Address:		00:a8:59:c6:00:5f	
MAC	Timestamp:	2012-09-11	
Active IP Address	The current IP	address of the phone.	
Current Subnet	The current Netmask address.		
Mask			
MAC Address	The current MAC address of the phone.		
Current IP Gateway	The current Gateway IP address.		

WAN Settings						
Obtain DNS Server Automatically	Enabled 💌					
Static IP O	DHCP ⊙	PPPoE O				
	Apply					

Please select the proper network mode according to the network condition. DPH-150S/DPH-150SE 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. The default is selecting it.

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

If you use static mode, 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	
<b>DNS Domain</b>	you input cannot	be parsed, phone will automatically	
	add this domain t	o the end of the domain which you	
	input before and	parse it again.	
Primary DNS	rimary DNS Input your primary DNS server address.		
Secondary DNS	Input your standb	y DNS server address.	
Service Name:		ANY	
User:		user123	
Password:		•••••	

If you uses PPPoE mode, 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.		

#### Notice:

1) Click "Apply" button after finished your setting, IP Phone will save the 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

DPH-150S	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGOUT	
WAN	LAN Setting:	S						
LAN	IP Address:			192.1	69.10.1			
QOS&VLAN	Subnet Mask:			255.2	55.0.0			
SERVICE PORT	DHCP Service:			~				
DHCP SERVICE	NAT:			<b>~</b>				
TIME&Date		Port Mirror:			(Only works in the bridge mode!)			
		Enable Bridge Mode:						
	Apply							
	Note: When LAN IP or bridge mode is changed, the system will reboot!							

## **LAN Config**

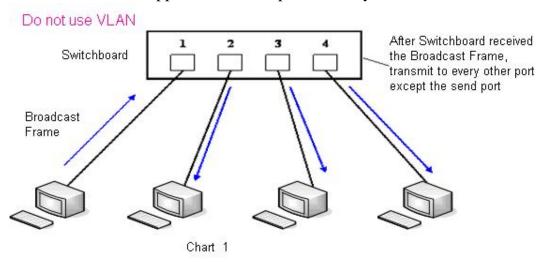
Field name	explanation	
IP Address	Specify LAN static IP.	
Subnet Mask	Specify LAN Netmask.	
	Select the DHCP server of LAN port or not. After you	
<b>DHCP Service</b>	modify the LAN IP address, phone will amend and	
	adjust the DHCP Lease Table and save the result	
	amended automatically according to 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 Mode,	
Enable Bridge	the phone will no longer set IP address for LAN	
Mode	physical port,LAN and WAN will join in the same	
	network. Click "Apply", the phone will reboot.	

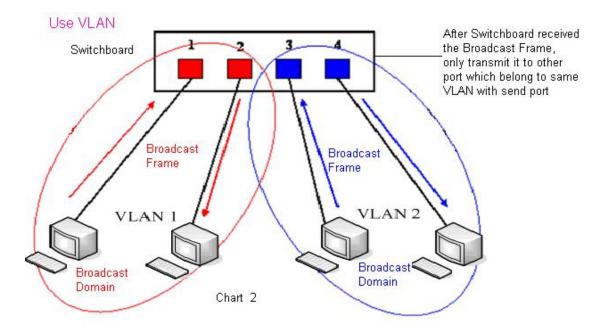
Notice: When LAN IP or bridge mode status is changed, the system will reboot!

If you choose the 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 signal/voice VLAN and data VLAN. The VLAN application of this phone is very flexible.

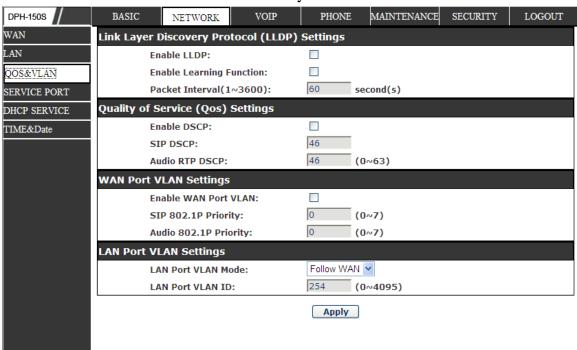




In chart 1, there is a layer 2 that switches without setting VLAN. Any broadcast frame will be transmitted to the other ports except the send port. For example, a broadcast information is sent out from port 1 then transmitted to port 2,3and 4. In chart 2, red and blue indicate two different VLANs in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



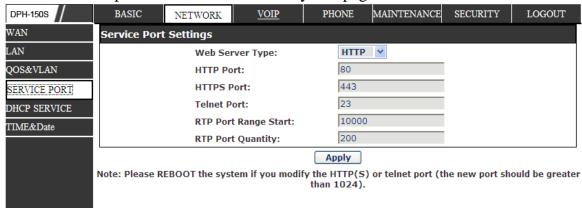
## **QoS** Configuration

Link Layer	
<b>Discovery Protocol</b>	
(LLDP) Settings	
Enable LLDP	Enable LLDP by selecting it.
	After enabling LLDP Learn, telephone can
Enable Learning	automatically learn the data of DSCP, 802.1p, VLAN
Function	ID from the switch. If the data is different from the
	data of the LLDP server, telephone will change its
	own value as the value of the switch (Synchronous
	with VLAN in switch).
Packet	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	Specify the value of the WAN Port VLAN ID, the			
ID	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.			
Mode	Disable: Disable Port VALN.			
	Enable: Enable Port VLAN and specify the Port			
	VLAN ID different from WAN ID.			
LAN Port VLAN	Specify the value of the Port VLAN ID different from			
ID	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**

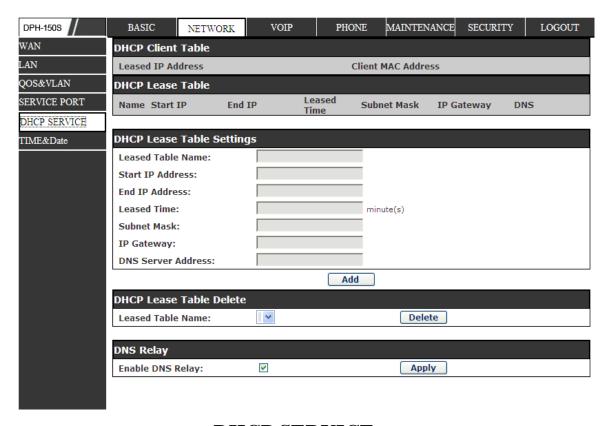
explanation
Specify Web Server Type.
Set web browser port, the default is 80 port, if you
want to enhance system safety, you'd better change it
into non-80 standard port;
Example: The IP address is 192.168.1.70. and the port
value is 8090, the accessing address is
http://192.168.1.70:8090.
Before using the https, you must download https

	authentication certification into the phone, then set web browser port, the default is 443 port, if you 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. You can change the value into others.		
	Example: The IP address is 192.168.1.70. The telnet port value is 8023; the accessing address is telnet 192.168.1.70 8023.		
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.		

DHCP Lease Table						
Name Start IP	End IP	Leased Time	Subnet Mask	IP Gateway	DNS	

Shows the DHCP Lease 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 network		
End IP Address	device connected to LAN port will get IP address		
	between Start IP and End IP by DHCP.		
Subnet Mask	Set the Netmask of the lease table.		
IP Gateway	Set the Gateway of the lease table.		
Leased Time	Set the Lease Time of the lease table.		
DNS Server	Set the default DNS server IP of the lease table; Click		
Address	the <b>Add</b> button to submit and add this lease table.		



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

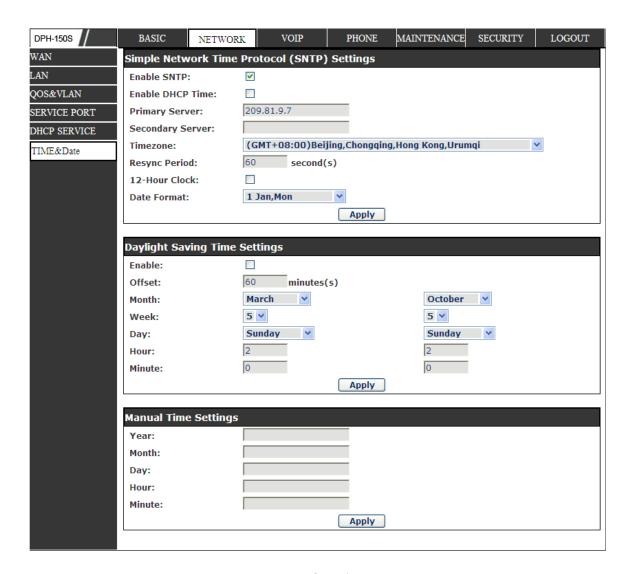
DNS Relay		
Enable DNS Relay:	<b>~</b>	Apply
Enable	Select DNS Rel	ay, the default is enabled. Click the
DNS Relay	Apply button to	become effective.

### **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.



## 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.

<b>Daylight Saving</b>	
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 Sett	ings

### **Manual Time Settings**

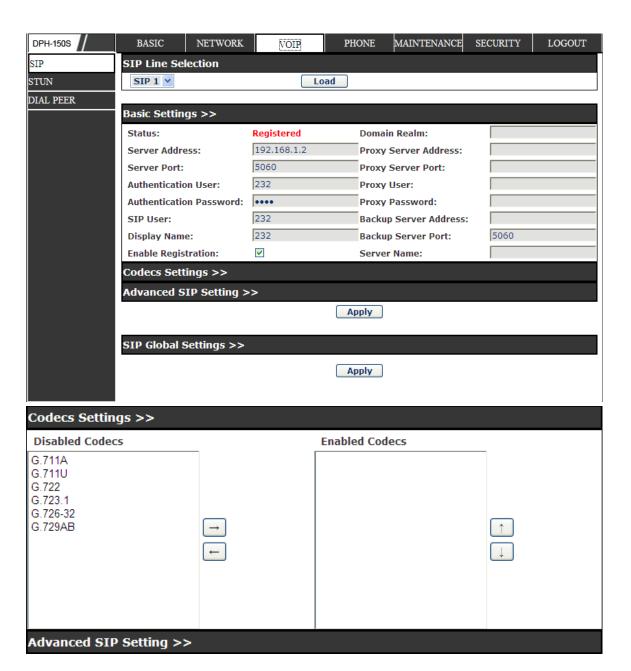
<b>Manual Time Settings</b>	
Year:	
Month:	
Day:	
Hour:	
Minute:	
	Apply

Notice: You need specify the above all items.

# 8.3.3 **VOIP**

## 8.3.3.1 **SIP**

Set your SIP server in the following interface.



Advanced SIP Setting >>						
Forward Type:	Disabled 💌	Enable Hotline:				
Forward Number:		Hotline Number:				
No Ans. Fwd Wait Time:	60 (0~120) second(s)	Warm Line Wait Time:	0 (0~9) second(s)			
Transfer Timeout:	0 second(s)	BLF Server:				
SIP Encryption:		Enable Auto Answer:				
SIP Encryption Key:		Auto Answer Timeout:	60 second(s)			
RTP Encryption:		Enable Session Timer:				
RTP Encryption Key:		Session Timeout:	0 second(s)			
Subscribe For MWI:		Conference Type:	Local 💌			
MWI Number:		Conference Number:				
Subscribe Period:	3600 second(s)	Registration Expires:	3600 second(s)			
Enable Service Code:						
DND On Code:		DND Off Code:				
Always CFwd On Code:		Always CFwd Off Code:				
Busy CFwd On Code:		Busy CFwd Off Code:				
No Ans. CFwd On Code:		No Ans. CFwd Off Code:				
Anonymous On Code:		Anonymous Off Code:				
Keep Alive Type:	SIP Option >	Keep Alive Interval:	60 second(s)			
User Agent:		Server Type:	COMMON Y			
DTMF Type:	RFC2833	RFC Protocol Edition:	RFC3261 V			
Local Port:	5060	Transport Protocol:	UDP Y			
Ring Type:	Default 🕶	Anonymous Call Edition:	None 💙			
Enable Rport:		Keep Authentication:				
Enable PRACK:		Ans. With a Single Codec:				
Enable Long Contact:		Auto TCP:				
Convert URI:	<b>✓</b>	Enable Strict Proxy:				
Dial Without Registered:		Enable GRUU:				
Ban Anonymous Call:		Enable Displayname Quote:				
Enable DNS SRV:		Enable user=phone:	✓			
Enable Missed Call Log:	<b>✓</b>	Click To Talk				
BLF List Number:		Enable BLF List:				

Apply

SIP Global Settings >>						
Strict Branch:		Enable Group:				
Registration Failure Retry Time:	32	second(s)				

### Apply

	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】 button.	
<b>Basic Settings</b>	
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 Address	Server. But if your VoIP service provider gives
	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.
G 1 G 111	

Enable Registration **Codecs Settings** 

Disable Codecs/Enable Codecs	Use the navigation keys to highlight the desired one in the Enable/Disable Codecs list, and press the desired to move to the other list.			
Advanced SIP Setting				
	Select call forward mode, the default is Off. Off: Close down calling forward.			
Forward Type	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			
Transfer Timeout	forwarded after the no answer forward wait 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.			
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				
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 answers			
Timeout	the incoming call after Auto Answer Time.			
Enable Session Timer	Set Enable/Disable Session Timer, whether 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	Set the Always CFwd On Code, when you choose to
Code	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	Set the Always CFwd Off Code, when you choose to
Code	disable the always forward function on your phone,
	it will send message to the server, and the server will
D CE 10 C 1	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 Code	Set the No Answer CFwd On Code, when you 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 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, 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
User Agent	seconds.  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.
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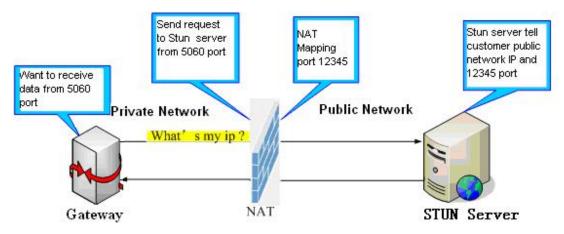
	different modes.
Local Port	Set sip port of each line.
Ring Type	Set ring type of each line.
Enable Via Rport	Enable/Disable system to support RFC3581. Via
•	rport is special way to realize SIP NAT.
Enable PRACK	Enable or disable SIP PRACK function, suggest use
	the default config.
Enable Long Contact	Set more parameters in contact field; connection
	with SEM server.
Convert URI	Convert # to %23 when send the URI.
Dial Without	Set call out by proxy without registration;
Registered	The court of the control of the cont
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,
Solver Type	or has some unique requirements or call flows.
RFC Protocol Edition	Select SIP protocol version to adapt for the SIP
KI C I TOLOCOI Lattion	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	
Transport Protocol	Set Ananymous cell out safely: Support
RFC Protocol Edition	Set Anonymous call out safely; Support
Voor Anthontication	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
Α	is enable.
Answer With A	Enable/Disable the function when call is incoming,
Single Codec	phone replies SIP message with just one codec
A 4 TICD	which phone supports.
Auto TCP	Set to use automatically TCP protocol to guarantee
F 11 C( ' ( D	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
E 11 CDIII	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 the
Quote	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.

Enable Missed Call Log	Enable the missed call log by it, the phone will 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 will monitor.
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 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 all sip lines.
Registration Failure Retry Time	Specify the registration failure retry time, if the phone register failed, the phone will register again after registration failure retry time.  Notice: the deployment will become effective in all sip lines.

### 8.3.3.2 **STUN**

In this web page, you can config SIP STUN.

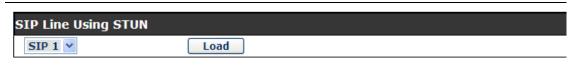
STUN: By STUN server, the phone in private network could know the type of NAT and the NAT mapping IP and port of SIP. The phone might register itself to SIP server with global IP and port to realize the device both calling and being called in private network.



DPH-150S	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGOUT
SIP	Simple Trav	versal of UDP	through NAT	s (STUN) Se	ettings		
STUN	STUN NAT T	raversal:	FALSE				
DIAL PEER	Server Addr	:					
	Server Port:	:	3478				
	Binding Peri	od:	50	sec	cond(s)		
	SIP Waiting	SIP Waiting Time:		800 millisecond(s)			
	Local SIP Po	ort:	5060				
				Apply			
	SIP Line Us	sing STUN	Load				
	Set Sip Line	e Enable STUN	N	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.
<b>Sip Line Using STUN</b>	



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

by **【Load】** button.

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.

#### 8.3.3.3 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.

Dial Peer Ta	ble					
Number	Destination	Port	Mode	Alias	Suffix	Deleted Length
156	192.168.1.119	5060	SIP	no alias	no suffix	0

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.

Dial Peer Table						
Number	Destination	Port	Mode	Alias	Suffix	Deleted Length
1T	0.0.0.0	5060	SIP	rep:010	no suffix	1

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

Dial Peer Table						
Number	Destination	Port	Mode	Alias	Suffix	Deleted Length
135xxxxxxxxxx	0.0.0.0	5060	SIP	no alias	no suffix	0
13(5-9)xxxxxxxxx	0.0.0.0	5060	SIP	no alias	no suffix	0

1.\* Match any single digit that is dialed.

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 Table						
Number	Destination	Port	Mode	Alias	Suffix	Deleted Length
156	192.168.1.119	5060	SIP	no alias	no suffix	0
135xxxxxxxxxx	0.0.0.0	5060	SIP	no alias	no suffix	0
135(5-9)xxxxxxxx	0.0.0.0	5060	SIP	no alias	no suffix	0
1T	0.0.0.0	5060	SIP	no alias	no suffix	0

Add Dial Peer	
Phone Number:	
Destination (optional):	
Port(optional):	
Alias(optional):	
Call Mode:	SIP 🕶
Suffix(optional):	
Deleted Length (optional):	
	Apply

Dial Peer Opt	ion		
156	~	Delete Modify	

# **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
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.

**Examples of different alias application** 

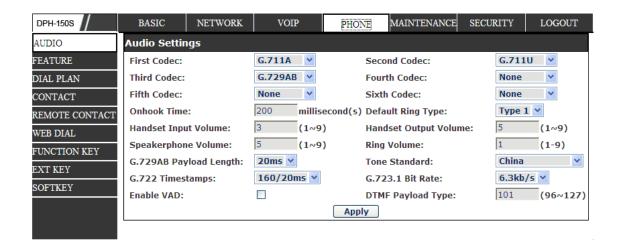
Set by web		explanation	example
Phone Number: Destination (optional): Port(optional): Alias(optional): Call Mode: Suffix(optional): Deleted Length (optional):	9T   255.255.255   del   SIP   V	You need set phone number, Destination, Alias and Delete Length. Phone number is XXXT; Destination is 255.255.255.255 (0.0.0.2) and Alias is del. This means any phone No. that starts with your set phone number will be sent via SIP2 line after the first several digits of your dialed phone number are deleted according to delete length.	If you dial "93333", the SIP2 server will receive "3333".
Phone Number: Destination (optional): Port(optional): Alias(optional): Call Mode: Suffix(optional):	all:33334444	This setting will realize speed dial function, after you dialing the numeric key "2", the number after	When you dial "2", the SIP1 server will receive
Deleted Length (optional):		all will be sent out.	33334444.

Phone Number: Destination (optional): Port(optional): Alias(optional): Call Mode: Suffix(optional): Deleted Length (optional):	8T  add:0755   SIP \rightarrow	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): Deleted Length (optional):	010T	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): Deleted Length (optional):	rep:0086 SIP V  00011	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.



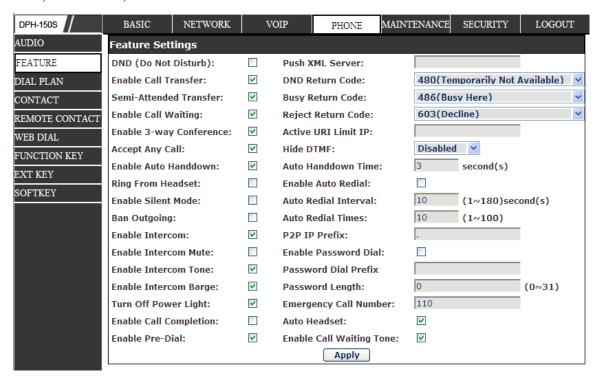
# **AUDIO Configuration**

Field name	explanation
First Codec	The first preferential DSP codec: G.711A/u, G.722,
	G.723, G.729.
Second Codec	The second preferential DSP codec: G.711A/u, G.722,
	G.723, G.729.
Third Codec	The third preferential DSP codec: G.711A/u, G.722,
	G.723, G.729.
Fourth Codec	The forth preferential DSP codec: G.711A/u, G.722,
	G.723, G.729.
Fifth Codec	The fifth preferential DSP codec: G.711A/u, G.722,
	G.723, G.729.
Sixth codec	The sixth preferential DSP codec: G.711A/u, G.722,
	G.723, G.729.
Handset Input	Specify Input (MIC) Volume grade.
Volume	
G729AB Payload	Set G729 Payload Length.
Length	
Onhook Time	Specify the least reflection time of Hand down, the
	default is 200ms.
Default Ring Type	Select Ring Type.
Handset Output	Specify Output (receiver) Volume grade.
Volume	
Speakerphone	Specify Speakerphone Volume grade.
volume	
Ring Volume	Specify Ring Volume grade.
G722 Timestamps	160/20ms or 320/20ms is available.
G723.1 Bit Rate	5.3 kb/s or 6.3 kb/s is available.
Default Ring Type	Set up the ring by default.
Tone Standard	Select Tone Standard.
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 Type	Set DTMF Payload 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 Fnabled:	
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



# **FEATURE**

Field name	explanation
Do Not	Select DND, the phone will reject any incoming call, the callers
Disturb	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 out
Outgoing	any number.

Enable Auto Redial whether redial, when the caller is busy or rejects.	Enable Call Transfer	Enable Call Transfer by selecting it.
Redial whether redial, when the caller is busy or rejects.  Auto Redial interval  Auto Redial Specify the Auto Redial interval.  Auto Redial Specify the Auto Redial interval.  Enable Call Completion  Enable Call Waiting by selecting it.  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 3-way conference by selecting it.  Accept Any Call If select it, the phone will accept the call even if the called number is not belong to the phone.  Enable Auto Hand down Auto Hand down Time at hands-free mode.  Auto Hand down Time From Handset by selecting it, the phone plays ring tone from handset.  Enable Enable Intercom Mode by selecting it, the phone plays the intercom call.  If the incoming call is intercom call, the phone auto answers the intercom call, the phone will reject the second interoom call.  Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.		Enable Semi-Attended Transfer by selecting it.
Auto Redial interval  Auto Redial Specify the Auto Redial interval.  Specify the Auto Redial interval.  Specify the Auto Redial interval.  Enable Call Completion by selecting it.  Enable Call Enable Call Waiting by selecting it. Then the phone reminds 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 Benable 3-way conference by selecting it.  Enable Benable Auto Hand down Time is not belong to the phone.  Enable Auto Hand down Auto Hand down Time at hands-free mode, and play dial tone Auto Hand down Time at hands-free mode, and play dial tone Auto Hand down Time at hands-free mode, and play dial tone Auto Hand down Time at hands-free mode benable Intercom Mode  Enable Enable Intercom Mode by selecting it.  Enable Enable Intercom Mode by selecting it.  Enable Enable Intercom Mode by selecting it.  Enable Enable Intercom Barge by selecting it, the phone plays the intercom call, the phone will reject the second intercom call. is intercom call, the phone light will red blink to remind that there is a missed call instead of playing ring tone.	Enable Auto	Enable Auto Redial by selecting it, then the phone reminds
Auto Redial Times  Enable Call Completion  Enable Call Waiting Waiting Enable Call Enable Call Completion by selecting it.  Enable Call Waiting Waiting Waiting Enable Call Waiting by selecting it. Then the phone reminds 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 Bnable 3-way conference by selecting it.  Enable Auto Call Enable Auto Hand down Time Auto Hand down Time Auto Hand down Time Free mode, and play dial tone Auto Hand down Time at hands-free mode, and play dial tone Auto Hand down Time at handset mode.  Enable Enable Intercom Mode by selecting it.  Enable Intercom Mute Enable Enable Intercom Mute Enable Enable Enable Intercom Barge by selecting it, the phone plays the intercom tone.  Tone Enable Enable Intercom Barge by selecting it, the phone light will red Mode Mode Bill the caller is busy or rejects. if it's ok and the phone reminds whether redial. Enable Intercom Barge by selecting it.  The phone vill lang up and return to the idle automatically at hands-free mode.  Enable Intercom Handset by selecting it, the phone plays ring the intercom call.  Enable Intercom Mode by selecting it.  Enable Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom Enable Silent Mode Bilnk to remind that there is a missed call instead of playing ring tone.	Redial	whether redial, when the caller is busy or rejects.
Auto Redial Times Enable Call Completion Enable Call Enable Call Completion by selecting it.  Enable Call Waiting Waiting Waiting Enable Call Enable Call Waiting by selecting it. Then the phone reminds 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 Behale 3-way conference by selecting it.  Enable Auto Hand down Hands-free mode, and play dial tone Auto Hand down Time at handset mode.  Enable Enable Enable Intercom Mode by selecting it, the phone plays ring tone from handset.  Enable Intercom Hate Enable Enable Enable Enable Intercom Mode by selecting it, the phone plays the intercom tone.  Tone Enable Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom sarge call, the phone will red Barge  Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.	Auto Redial	Specify the Auto Redial interval.
Enable Call Completion Enable Call Enable Call Waiting by selecting it. Then the phone reminds 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 3-way Conference Accept Any If select it, the phone will accept the call even if the called number is not belong to the phone. Enable Auto Hand down Hand down Time Auto Hand down Time Auto Hand down Time Ands-free mode, and play dial tone Auto Hand down Time at hands-free mode, and play dial tone Auto Hand down Time at handset mode.  Ring From Headset Enable Enable Ring From Handset by selecting it, the phone plays ring tone from bandset.  Enable Enable Intercom Mode by selecting it.  Enable Intercom  Enable Enable If the incoming call is intercom call, the phone auto answers the intercom call, the phone will reject the second intercom call.  Enable Silent Mode Blink to remind that there is a missed call instead of playing ring tone.	interval	
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Completion  Enable Call 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 Bnable 3-way conference by selecting it.  S-way Conference  Accept Any Call Enable Auto Hand down Call Enable Auto Hand down Time Teturn to the idle automatically at hands-free mode.  Specify Auto Hand down Time, the phone will hang up and return to the idle automatically at hands-free mode, and play dial tone Auto Hand down Time at hands-free mode, and play dial tone Auto Hand down Time at handset mode.  Ring From Headset Enable Enable Ring From Handset by selecting it, the phone plays ring tone from handset.  Enable Intercom Enable Intercom Mute  Enable If the incoming call is intercom call, the phone plays the intercom tone.  Enable Intercom Barge by selecting it, the phone auto answers the intercom call, the phone will red the intercom call, the phone light will red blink to remind that there is a missed call instead of playing ring tone.	Times	
Enable Call 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 3-way Conference Accept Any Call Enable Auto Hand down Auto Hand down Time From Handset mode.  Ring From Headset Enable Intercom Mute Enable Enable Enable Enable Intercom tone.  Enable Enable Enable Enable Intercom doe. Enable Enable Intercom doe. Enable Enable Intercom doe. Enable Enable Enable Intercom doe. Enable Enable Enable Intercom doe. Enable Enable Intercom doe. Enable Enable Enable Intercom doe. Enable Enable Enable Intercom doe. Enable E	Enable Call	Enable Call Completion by selecting it.
Enable Call 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 3-way Conference Accept Any Call Enable Auto Hand down Auto Hand down Time From Handset mode.  Ring From Headset Enable Intercom Mute Enable Enable Enable Enable Intercom tone.  Enable Enable Enable Enable Intercom doe. Enable Enable Intercom doe. Enable Enable Intercom doe. Enable Enable Enable Intercom doe. Enable Enable Enable Intercom doe. Enable Enable Intercom doe. Enable Enable Enable Intercom doe. Enable Enable Enable Intercom doe. Enable E	Completion	
the phone finds out that the caller is idle by sip message, it will reminds whether redial.  Enable 3-way Conference  Accept Any Call If select it, the phone will accept the call even if the called number is not belong to the phone.  Enable Auto Hand down Auto Hand down Time will hang up and return to the idle automatically at hands-free mode.  Auto Hand down Time teturn to the idle automatically 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 ring tone from handset.  Enable Enable Intercom Mode by selecting it.  Intercom  Mute  Enable If the incoming call is intercom call, the phone plays the intercom tone.  Tone  Enable Enable Intercom Barge by selecting it, the phone auto answers the intercom call, the phone will reject the second intercom call.  Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.		Enable Call Waiting by selecting it. Then the phone reminds
the phone finds out that the caller is idle by sip message, it will reminds whether redial.  Enable 3-way Conference  Accept Any Call If select it, the phone will accept the call even if the called number is not belong to the phone.  Enable Auto Hand down Auto Hand down Time will hang up and return to the idle automatically at hands-free mode.  Auto Hand down Time teturn to the idle automatically 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 ring tone from handset.  Enable Enable Intercom Mode by selecting it.  Intercom  Mute  Enable If the incoming call is intercom call, the phone plays the intercom tone.  Tone  Enable Enable Intercom Barge by selecting it, the phone auto answers the intercom call, the phone will reject the second intercom call.  Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.	Waiting	whether redial, when the caller is busy or rejects. if it's ok and
Enable Brable 3-way conference by selecting it.  3-way Conference  Accept Any If select it, the phone will accept the call even if the called number is not belong to the phone.  Enable Auto Hand down hands-free mode.  Specify Auto Hand down Time, the phone will hang up and return to the idle automatically 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 ring tone from handset.  Enable Enable Intercom Mode by selecting it.  Intercom  Mute  Enable If the incoming call is intercom call, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone light will red blink to remind that there is a missed call instead of playing ring tone.	J	· · · · · · · · · · · · · · · · · · ·
Accept Any Call If select it, the phone will accept the call even if the called number is not belong to the phone.  Enable Auto Hand down Auto Hand down Time  Enable Ring From Handset Enable Ring From Handset by selecting it, the phone plays ring tone from handset.  Enable Enable Enable Enable Enable Enable Intercom Mute Enable If the incoming call is intercom call, the phone auto answers Intercom Barge Enable Silent Enable Intercom Barge by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.		
Accept Any Call If select it, the phone will accept the call even if the called number is not belong to the phone.  Enable Auto Hand down Time phone will hang up and return to the idle automatically at hands-free mode.  Auto Hand Specify Auto Hand down Time, the phone will hang up and return to the idle automatically 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 ring tone from handset.  Enable Enable Intercom Mode by selecting it.  Intercom  Mute Enable If the incoming call is intercom call, the phone plays the intercom tone.  Tone  Enable Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call.  Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.	Enable	Enable 3-way conference by selecting it.
Accept Any Call number is not belong to the phone.  Enable Auto Hand down Auto Hand down Time at handsefree mode, and play dial tone Auto Hand down Time at handset mode.  Ring From Enable Ring From Handset by selecting it, the phone plays ring Headset tone from handset.  Enable Enable Intercom Mode by selecting it.  Intercom  Mute  Enable If the incoming call is intercom call, the phone auto answers Intercom  Enable Enable Intercom Barge by selecting it, the phone auto answers the intercom call, the phone will red blink to remind that there is a missed call instead of playing ring tone.	3-way	
Call number is not belong to the phone.  Enable Auto Hand down hands-free mode.  Auto Hand Specify Auto Hand down Time, the phone will hang up and return to the idle automatically at 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 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 tone.  Tone  Enable Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call.  Enable Silent Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.	Conference	
Enable Auto Hand down Auto Hand Specify Auto Hand down Time, the phone will hang up and return to the idle automatically at 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 ring Headset Enable Enable Intercom Mode by selecting it.  Intercom Mute Enable If the incoming call is intercom call, the phone plays the intercom tone.  Tone Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom Call, the phone will reject the second intercom call.  Enable Silent Mode Bilent Mode blink to remind that there is a missed call instead of playing ring tone.	Accept Any	If select it, the phone will accept the call even if the called
Enable Auto Hand down hands-free mode.  Auto Hand Specify Auto Hand down Time, the phone will hang up and return to the idle automatically at hands-free mode.  Auto Hand Specify Auto Hand down Time, the phone will hang up and 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 ring tone from handset.  Enable Enable Intercom Mode by selecting it.  Intercom  Mute Enable If the incoming call is intercom call, the phone plays the intercom tone.  Tone Enable Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call.  Enable Silent Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.	Call	number is not belong to the phone.
Hand down hands-free mode.  Auto Hand Specify Auto Hand down Time, the phone will hang up and 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 ring tone from handset.  Enable Enable Intercom Mode by selecting it.  Intercom  Mute Enable If the incoming call is intercom call, the phone plays the intercom tone.  Tone  Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call.  Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.	Enable Auto	-
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 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 tone.  Tone  Enable Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call.  Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.	Hand down	hands-free mode.
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 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 tone.  Tone  Enable Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call.  Enable Silent Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.	Auto Hand	Specify Auto Hand down Time, the phone will hang up and
Ring From Enable Ring From Handset by selecting it, the phone plays 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 tone.  Tone  Enable Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call.  Enable Silent Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.	down Time	return to the idle automatically after Auto Hand down Time at
Ring From Enable Ring From Handset by selecting it, the phone plays 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 tone.  Tone  Enable Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call.  Enable Silent Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.		hands-free mode, and play dial tone Auto Hand down Time at
Headset 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 tone.  Tone  Enable Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call.  Enable Silent Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.		handset mode.
Enable Enable Intercom Mode by selecting it.  Enable Enable mute mode during the intercom call.  Intercom  Mute  Enable If the incoming call is intercom call, the phone plays the intercom tone.  Tone  Enable Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call.  Enable Silent Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.	Ring From	Enable Ring From Handset by selecting it, the phone plays ring
Enable Enable mute mode during the intercom call.  Intercom  Mute  Enable If the incoming call is intercom call, the phone plays the intercom tone.  Tone  Enable Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call.  Enable Silent Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.	Headset	tone from handset.
Enable Enable mute mode during the intercom call.  Intercom  Mute  Enable If the incoming call is intercom call, the phone plays the intercom tone.  Tone  Enable Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call.  Enable Silent Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.	Enable	Enable Intercom Mode by selecting it.
Intercom Mute  Enable If the incoming call is intercom call, the phone plays the intercom tone.  Tone  Enable Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call.  Enable Silent Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.	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 answers Intercom the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call.  Enable Silent Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.	Enable	Enable mute mode during the intercom call.
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 answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call.  Enable Silent Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.	Intercom	
Intercom intercom tone.  Tone  Enable Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call.  Enable Silent Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.	Mute	
Enable Enable Intercom Barge by selecting it, the phone auto answers Intercom the intercom call during a call. If the current call is intercom Call, the phone will reject the second intercom call.  Enable Silent Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.	Enable	If the incoming call is intercom call, the phone plays the
Enable Enable Intercom Barge by selecting it, the phone auto answers the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call.  Enable Silent Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.	Intercom	intercom tone.
Intercom the intercom call during a call. If the current call is intercom call, the phone will reject the second intercom call.  Enable Silent Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.	Tone	
Barge call, the phone will reject the second intercom call.  Enable Silent Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.	Enable	Enable Intercom Barge by selecting it, the phone auto answers
Enable Silent  Enable Silent Mode by selecting it, the phone light will red blink to remind that there is a missed call instead of playing ring tone.	Intercom	the intercom call during a call. If the current call is intercom
Mode blink to remind that there is a missed call instead of playing ring tone.	Barge	call, the phone will reject the second intercom call.
ring tone.	Enable Silent	Enable Silent Mode by selecting it, the phone light will red
ring tone.	Mode	blink to remind that there is a missed call instead of playing
Turn Off Enable Turn Off Power Light by selecting it.		
	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 is
Password	beginning with the password prefix, the following N numbers
Dial	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 prefix of the password call number.
Dial Prefix	
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, it
Server	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 want
P2P IP Prefix	to dial is 192.168.1.119, If you define P2P IP Prefix as
	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.
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).
<b>Block Out</b>	
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
Block out	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 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.

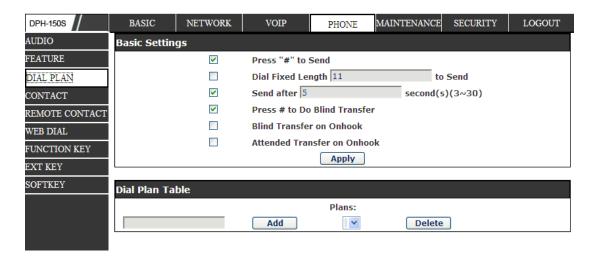
Notice: Black List and Limit List can record at most10 items respectively.

### 8.3.4.3 **DIAL PLAN**

This system supports 4 dial modes:

- 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) 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 keep some users' secondary dialing manner when dialing the external line with PBX, phone can be added a special rule to realize it. so user can dial a number as external line prefix and get the secondary dial tone to keep dial the external number. After finishing dialing, phone will send the prefix and external number totally to the server.

For example, there is a rule 9, xxxxxxxx in the digital map table. After dialing 9, phone will send the secondary dial tone, user may keep going dialing. After finished, phone will call the number which starts with 9; actually the number sent out is 9-digit with 9.



**DIAL PLAN Configuration** 

Field name explanation	
------------------------	--

<b>Basic Setting</b>			
Press "#" to Send	Set Enable/Disable the phone ended with "#" dial.		
Dial Fixed Length	Specify the Fixed Length of phone ending with.		
Candaftan (2.20)	Set the timeout of the last dial digit. The call will be		
Send after (3-30)	sent after timeout.		
seconds			
Press # to Do Blind	Enable Blind Transfer On Hook, when executing Blind		
Transfer	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 executing		
OnHook	Attended Transfer, hang up after the third party		
	answers, the phone will transfer the current call to the		
	third party.		



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

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.

"RULE"

"[1-8]XXX"

"9XXXXXXX"

"911"

"99T4"

"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.

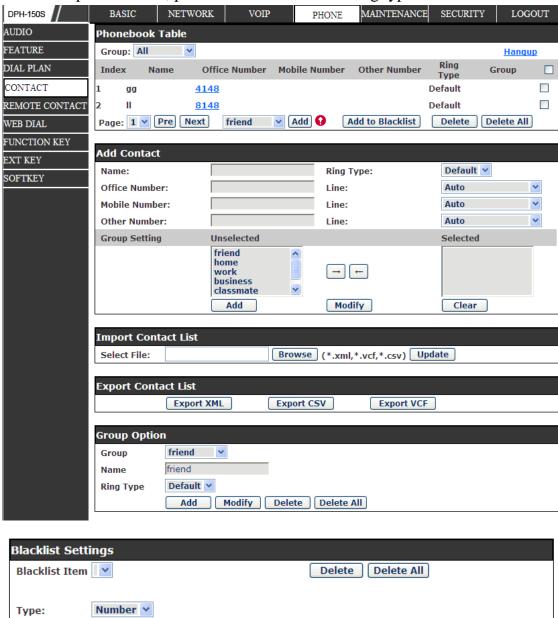
#### 8.3.4.4 **CONTACT**

Value:

Line:

Auto 💙

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



### **Contact**

Blacklist

Add

Field name	explanation	
Phonebook Table		



### Shows the detail of current phonebook.

Notice: the maximum capability of the phonebook is 500 items, you can select many or a contact to add to group and add to blacklist, and delete many or a contact, and delete all contacts.

Specify the name corresponding to the phone	
number.	
Specify the office number.	
Specify the mobile number.	
Specify the other number.	
Specify the ring type for the phone number.	
Specify the sip line for the each number.	
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.

<b>Group Option</b>	
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.
<b>Blacklist Settings</b>	
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

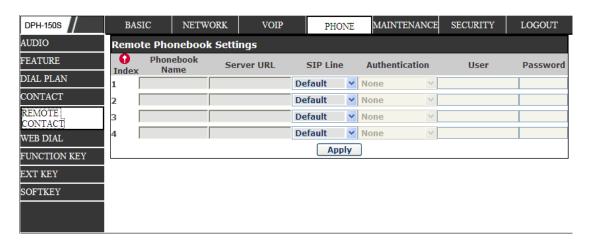
the number(s) to the list as the white list rule. The configuration rule is -number, for example, -123456, or -1234xx.

Blacklist -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



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\*\*\*, Server URL is

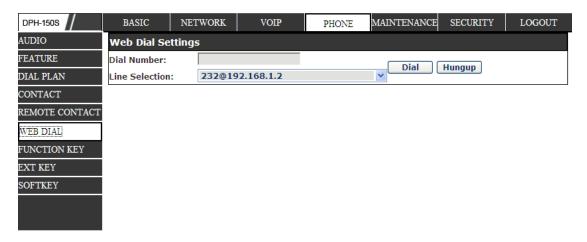
tftp://192.168.1.3/admin/phonebook/index.xml.

Or Set the Phonebook Name as Idap, 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 passwor	

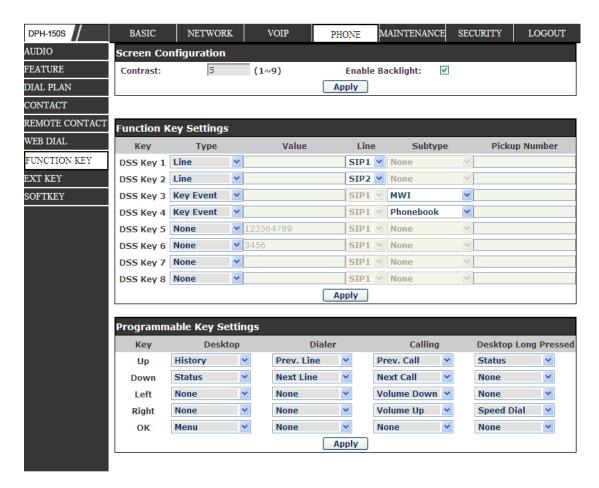
### 8.3.4.6 **WEB DIAL**



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.

### 8.3.5 FUNCTION KEY

#### 8.3.5.1 FUNCTION KEY



## **Function Key**

Field name	explanation
Contrast	Set contrast of screen.
Enable Backlight	Set enable/disable backlight.
<b>Line Key Settings</b>	

**Line:** select Auto, SIP1, SIP2 in function key type. After you set it, you pick up handset or hands-free, press this function key, and then you can use the corresponding SIP line.

### **Function Key Settings**

key	Show the function key's serial number.
Type	Memory Key: settings can be stored in key storage
	for each number, the standby or off-hook, select
	the function keys on the keyboard can call this
	number.
	Line, set the dial mode (Auto, SIP1, SIP2). Key
	Event functions, monitor state.
	DTMF: In the call, send DTMF.
	URL: You can input remote book url.
Value	Set the type parameter values.
Line	Choose which lines to use this feature.
Pickup Number	The value of SubType is the number to BLF or
	Presence.
Subtype	Select the function parameters Key Event and
	Memory Event.

### NOTICE:

• Memory keys can be configured through the following: **Speed Dial function,** through the configuration of the key corresponding to the number of ways as shown below.



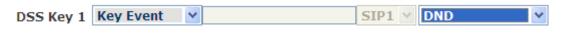
User can press the F1 key to allocate this number by line1 line.

**Intercom function,** you can press this key in standby to automatically answer the call and make each other.

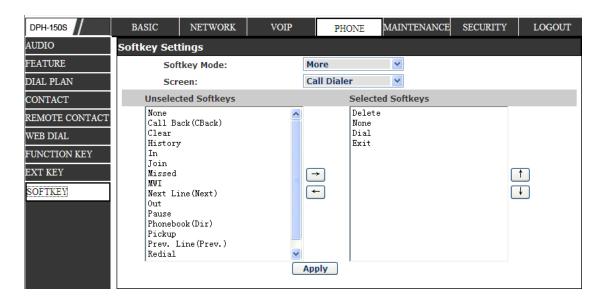


User can be configured in accordance with push to talk function the way: 4116 was the other number; Then press the standby button and make it automatically answer the call 4116.

• key can be configured through the following events: For example:



### 8.3.5.2 **SOFTKEY**

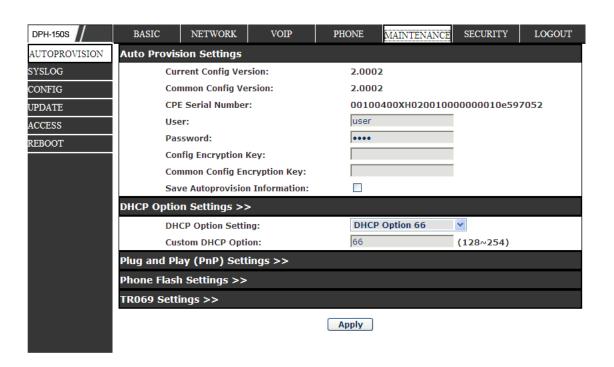


### **SOFTKEY**

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

### 8.3.6 Maintenance

### 8.3.6.1 Auto Provision



Plug and Play (PnP) Settings >>			
Enable PnP:	~		
PnP Server:	224.0.1.75		
PnP Port:	5060		
PnP Transport:	UDP 🕶		
PnP Interval:	1	hour(s)	
Phone Flash Settings >>			
Server Address:	0.0.0.0		
Config File Name:			
Protocol Type:	FTP 💌		
Update Interval:	1	hour(s)	
Update Mode:	Disabled	~	

VoIP 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 optin → PnP server → Phone Flash

## **Auto Provision**

Field name	explanation
Auto Update	
Setting	
Current Config	Show the current config file's version. If the version
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	Show the common config file's version. If the
Version	configuration downloaded and the running
	configurations 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	Specify FTP/HTTP/HTTPS server Password.
Config Encrypt Key	Input the Encrypt Key, if the configuration file is

	encrypted.
Common Config	Input the Common Encrypt Key, if the Common
Encrypt Key	Configuration file is encrypted.
Save Autoprovision	Save the username and password authentication
Information	message of http/https/ftp and input ID message in the
	phone until the url in the server changes.
DHCP Option	r
Setting	
DHCP Option	Specify DHCP Option. DHCP option supports DHCP
Setting	custom option and DHCP option 66 and DHCP option
C	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
Option	Custom DHCP Option must be in accordance 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	specify the interval time, time is notifi-
Server Address	Set FTP/TFTP/HTTP server IP address for auto
Derver Address	update. The address can be IP address or Domain
	name with subdirectory.
Config File Name	Set configuration file's name which need to update.
Coming The Ivame	System will use MAC as config file name if config file
	name keep blank. For example, 000102030405.
Protocol Type	
* *	Specify update interval time, unit is hour.
Update Interval	Specify update interval time, unit is hour.  Different update modes:
Undata Mada	Different update modes:
Update Mode	1. Disable: means no update.
	2. Update after reboot: means update after reboot.
TD060 Co44!	3. Update at time interval: means periodic update.
TR069 Settings	Early TD000 has a lasting it
Enable TR069	Enable TR069 by selecting it.
ACS Server Type ACS Server URL	Specify the ACS Server Type.  Specify the ACS Server URL.
6 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	Non-angles Alam Alam A (NN) Non-angle I III I

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.	
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.	
Stop	Click the end button to stop capturing the packet	
	stream.	

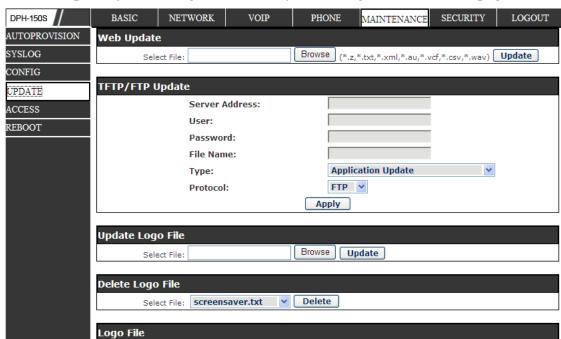
## 8.3.6.3 **CONFIG**



# **Config Setting**

Explanation		
You can save all changes of configurations. Click the		
Save button, all changes of configuration will be		
saved, and be effective immediately.		
Right clicks on "Right click here" and select "Save		
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.		
User can restore factory default configuration and		
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 version number.		

### 8.3.6.4 **UPDATE**



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

# **Update**

screensaver.txt

(3906 Bytes)

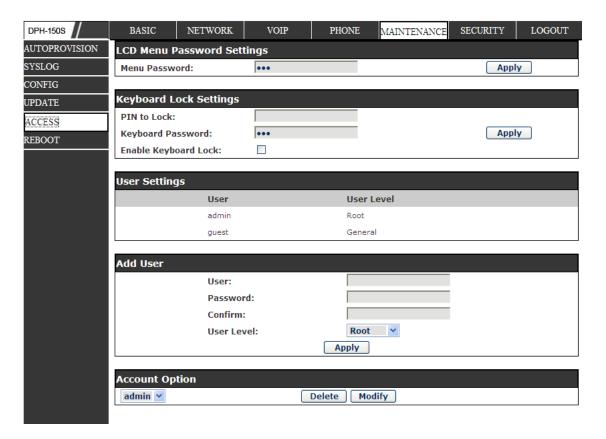
Field name	Explanation		
Web Update			
Web Update	Click the browse button, find out the config file saved before or provided by manufacturer, download it to the phone directly, press "Update" to save. You can also update downloaded update file, logo picture, ring,		
	mmiset file by web.		
TFTP/FTP Update	,		
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.		
37 (1 T7			

**Notice:** You can modify the exported config file. And you can also download config file which includes several modules that need to be imported. For example, you can download a config file just keep with SIP module. After

reboot, other module	es of system still use previous setting and are not lost.		
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			
Logo File	Show the logo file.		

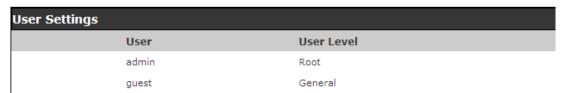
# 8.3.6.5 ACCESS

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



## **Access Configuration**

Field name	explanation	
Keyboard Password	Set the password for entering the setting menu of the	
	phone by the phone's key board. The password is	
	digit.	



This table shows the 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 account and click the **Modify** to modify the selected account, and click the **Delete** to delete the selected account.

General user only can add the user whose level is General.

#### 8.3.6.6 **REBOOT**

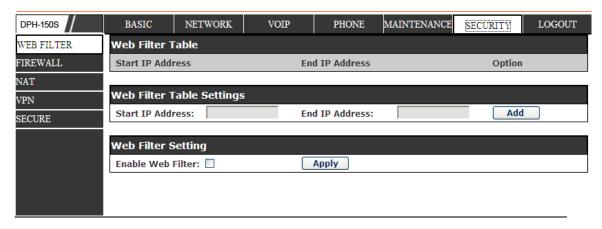


If you modified some configurations which need the phone's reboot to be effective, you need click the Reboot, then the phone will reboot immediately.

**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:

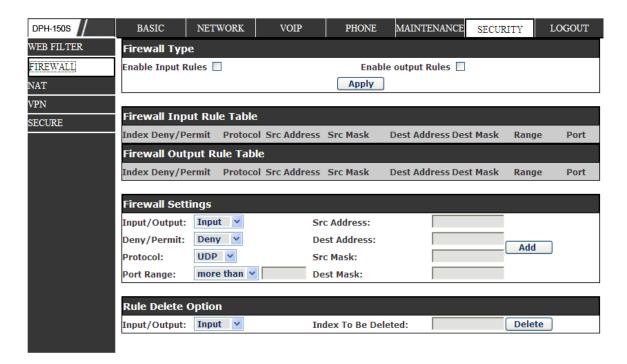
Add or delete the IP address segments that access to the phone.

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



## **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
Enable Input Rules	Select it to Enable Input Rules.
Enable Output	Select it to Enable Output Rules.
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 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 means just point to one host;		
	255.255.255.0 means point to a network which		

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

network ID is C type.

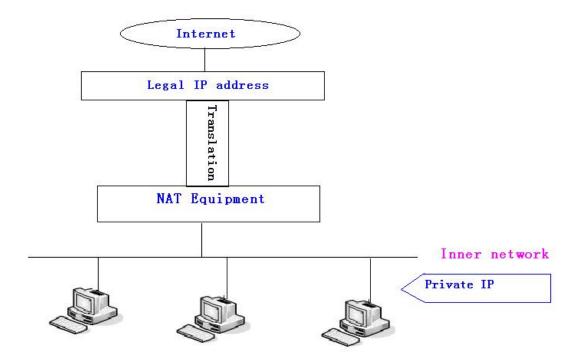
Then enable out access, and click the Apply button.

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.

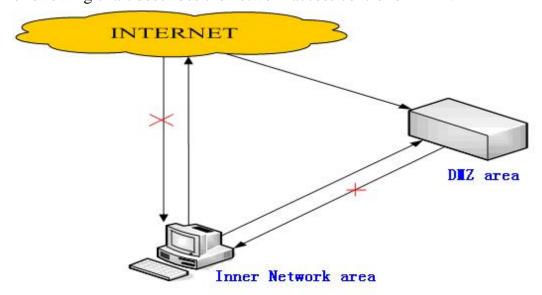
### 8.3.7.3 **NAT**

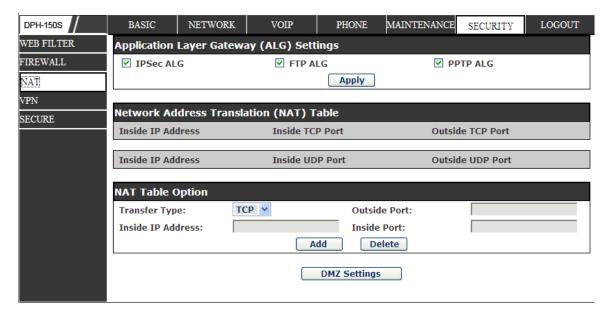
NAT is abbreviated from Net Address Translation; it's a protocol responsible for IP address translation. In other word, it is responsible for transforming IP and port of private network to public, also is the IP address mapping which we usually say.



### 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.



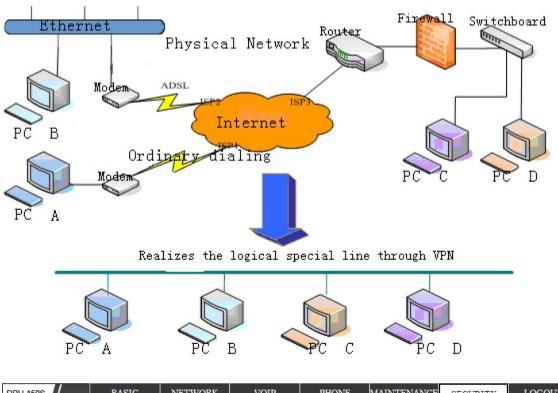


# **NAT Configuration**

Field name	explanation	
IPSec ALG	It is an encryption technology. Select it to enable	
	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 TCF	P mapping table	
Shows the NAT UD	P 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 butte	on to delete the selected mapping table.	
Shows the outside W	AN port IP address and the inside LAN port IP address.	
<b>Notice:</b> 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.



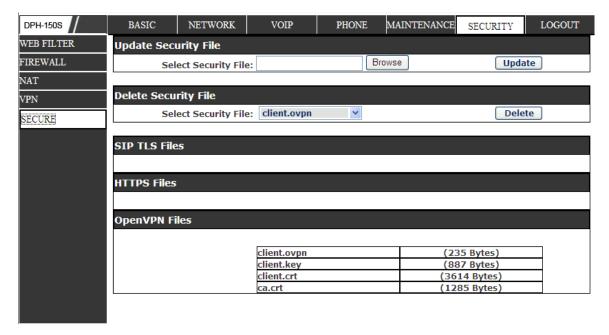
DPH-150S	BASIC	NETWORK	VOIP	PHONE	MAINTENANCE	SECURITY	LOGOUT
WEB FILTER	Virtual Priva	Virtual Private Network (VPN) Status					
FIREWALL		IP Address: 0.0.0.0					
NAT							
VPN	VPN Mode	•					
SECURE	□ Enable VPN  ○ L2TP  • OpenVPN						
	Layer 2 Tunneling Protocol (L2TP)						
	VPN Server Address: VPN User: VPN Password :						
				Apply			

# **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	
<b>Update Security</b>		
File		
Select Security File	Select the security file you want to update, then click	
	Update button to update.	
<b>Delete Security File</b>		
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 Specification

### 9.1.1 Hardware

Item		DPH-150S/DPH-150SE		
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		
	EXT	RJ-11 PORT		
	headset	RJ-9 PORT		
Power		Idle: 2.5W/Active: 2.8W		
Consumption				
LCD Size		128x48		
		74 x 28mm		
Operation		0~40 °C		
Temperature				
Relative Humidity		10~65%		
CPU		Broadcom VoIP chipset		
SDRAM		16MB		
Flash		4MB		
Dimension(L x W x		295×295×175mm		
H)				
Weight		1.5kg		

### 9.1.2 Voice features

- SIP supports 2 SIP servers
- Support SIP 2.0 (RFC3261) and correlative RFCs
- Codec: G.711A/u, G.723.1 high/low, G.729a/b, G.722, G.726
- 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
- Support multi line/HD Voice

- SIP support SIP domain, SIP authentication(none basic, MD5), DNS name of server, Peer to Peer/ IP call
- Automatically select calling line, if one line can't be connected, the phone can automatically switch to other line to call.
- 9 kinds of ring types and 3 user-defined music rings
- DTMF Relay: support SIP info, DTMF Relay, RFC2833
- SIP application: SIP Call forward/transfer (blind/attended) /hold/waiting/3
   way talking/SMS/pickup /join call /redial /unredial/multi line/intercom/BLF/presence/push to talk/auto redial/call return
- Call control features: Flexible dial map, hotline, empty calling No. reject service, black list for reject authenticated call, white list, limit call, no disturb, caller ID, CLIR(reject the anonymous call), CLIP(make a call with anonymous), Dial without register.
- Support phonebook 500 records, Incoming calls / outgoing calls / missed calls. Each supports 300 records.
- 4 DSS keys
- Soft keys programmable, function keys programmable
- Code synchronization via IP PBX/IMS
- Support click to dial via web phone book/Group listening
- Voice codec setting for each SIP line
- Support keypad lock, and emergency call during the keypad lock
- Customized lcd logo
- Ring play via headset or speaker setting
- Signal tone parameters customized
- Phonebook supports vcard standard
- 12/24 hours' time display
- Support daylight saving time
- Support path, group
- Support SIP Privacy
- Support SMS
- Support MWI
- Support Speed dial
- Support XML

### 9.1.3 Network features

- WAN/LAN: support bridge and router model
- Support PPPoE for xDSL
- Support basic NAT and NAPT
- 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		7 <sub>PQRS</sub>	7 P Q R S p q r s
2 <sub>ABC</sub>	2 A B C a b c	<b>8</b> <sub>TUV</sub>	8 T U V t u v
3 <sub>DEF</sub>	3 D E F d e f	9 <sub>wxyz</sub>	9 W X Y Z w x y z
4 <sub>GHI</sub>	4 G H I g h i	*.	*.
5 <sub>JKL</sub>	5 J K L j k l	0	0
<b>6</b> ммо	6 M N O m n o	# <sub>SEND</sub>	#SEND