User Manual

IP652

V2.0

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Revision Record:

Version	Date	Author	Firmware Version	Remark
V1.0	2011-3-15	Anne	V1.0.7	
V1.1	2011-3-23	Anne	V1.0.8	
V1.2	2011-3-25	Anne	V1.1.0	
V1.3	2011-3-30	Anne	V1.1.1	
V1.4	2011-4-7	Anne	V1.1.4	
V1.5		Anne	V1.1.6	
V1.7	2011-4-19	Anne	V1.1.6	
V1.8	2011-5-5	Anne	V1.2.0	
V1.9	2011-5-20	Anne	V1.2.1	
V2.0	2011-12-31	Sufan	V1.4.3	BLF, Paging and Intercom

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1 Introduction

1.1 Thanks for Purchasing IP652

Thank you for purchasing IP652. The IP652 which has 5 lines is a full-featured VoIP (Voice over Internet Protocol) phone that provides voice communication over an IP network.

This phone functions not only much like a traditional phone, allowing to place and receive calls and enjoy other features that traditional phone has, but also it own many data services which you could not expect from traditional telephone.

The IP652 provides **Power over Ethernet (PoE)** and two Ethernet ports for connecting another device to the local area network.

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

1.2 Package Contents

Your package includes the following:

- One IP652 (with PoE) IP Phone Unit
- Handset and handset cord
- Headset
- One universal power adapter
- One Ethernet cable
- Wall-mounting screw pack

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2 Installing

2.1 Assembling the Phone and Connecting to the Network

1) Plug one end of the coiled phone cord into the left side of the phone base.
2) Plug the other end of the handset cord into the jack at the bottom of the handset.
3) If you are using an external power source, push the power cord into the power supply, and plug the power supply into the phone base unit.

   Note: Use only the power supply that came with the phone.
4) Plug the Ethernet cable into **Internet port** in the rear side of the base station. Plug the other end of the Ethernet cable into your already prepared network connection.

2.2 Mounting the Phone to the Wall

1) Complete the assembly instructions.
2) Attach two appropriate screws to the wall. Leave 1/4 distance from the wall. This allows you to slide the mounting brackets on to the screws.

   Push down slightly to lock the phone in place.

2.3 Turning on the Phone

This section assumes that the correct connections have been made.

1) Check whether the Internet port is well connected.
2) Plug the AC power adapter into the electrical outlet.

   Note: Use only the adapter that came with the phone.
3) The LCD will firstly display "**Welcome, initializing…..**" and all of the lights on the phone will flash.
4) Next, the LCD display "**Initializing Network**".
5) After the sequence, the phone will display the Internet port IP address, date & time, lines status for the phone, and IP652 is started normally.

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Note: If the phone does not provide this screen, re-confirm installation and connections. If these are incorrect, try unplugging the phone and plugging it back in again. If you still don’t see the display, then contact your Phone Administrator or service provider.

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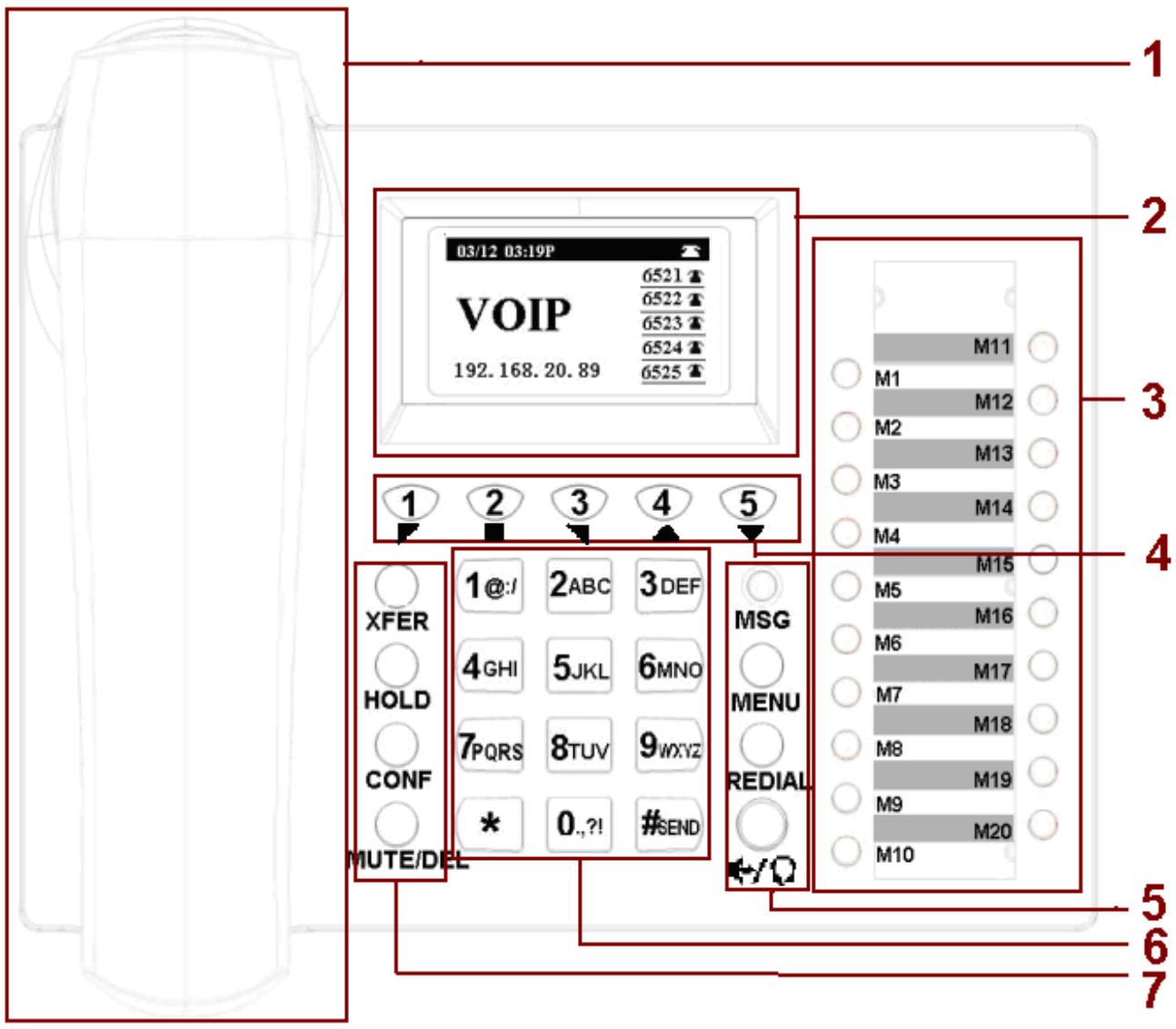
3 Get Familiar with IP652

3.1 Front Panel

Front Panel	No.	Part Name	Description of function
 Picture 1	1	Handset top cradle	For the placement of handset (Receiver end)
		Hook switch	For hang-up and hang-off of handset
		Cradle latch	To prevent the handset from dropping when it is wall-mounted.
		Handset bottom cradle	For the placement of handset (Transmitter end)
		Handset cord port	RJ-11 jack on the left side of the IP phone
		Headset wire port	RJ-11 jack on the bottom of the handset
		Headset	To mount mouthpiece and earpiece on the single handle.
	2	LCD screen	The LCD screen is for displaying your settings, such as IP address of Internet port, phone number, and call status and so on.
	3	Multi-Functional Key	These keys can be used as speed dial, BLF, shortcut key, pick up and call park.
	4	Line Keys/ Soft keys	**In standby**: These keys are used as line keys; you can press the line button to select the corresponding line, and then user can make call or do other functions. The LEDs under the keys used to display the status of each extension, please refer to **3.3 LCD indicator** **When configuration from Menu:** In this status, these keys are used as soft keys. These can be used for item selection or control on the LCD screen. The first three soft keys' function

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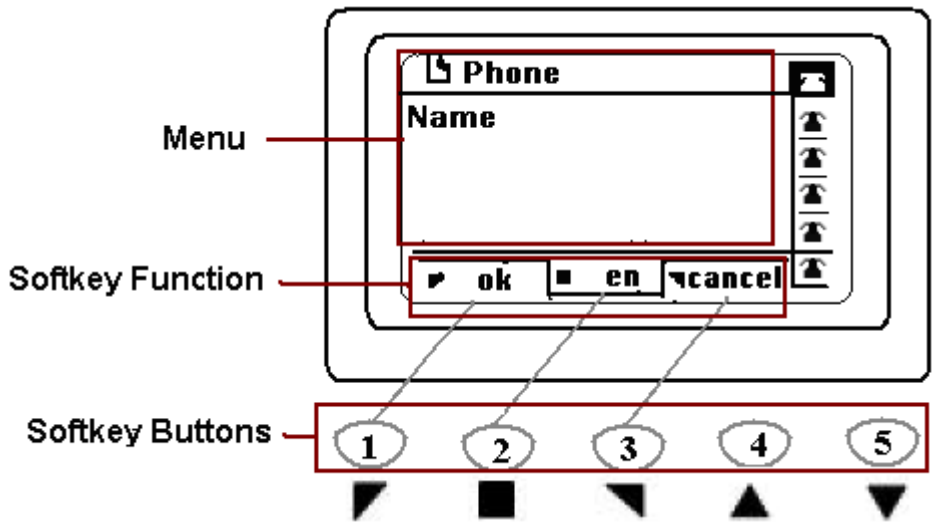
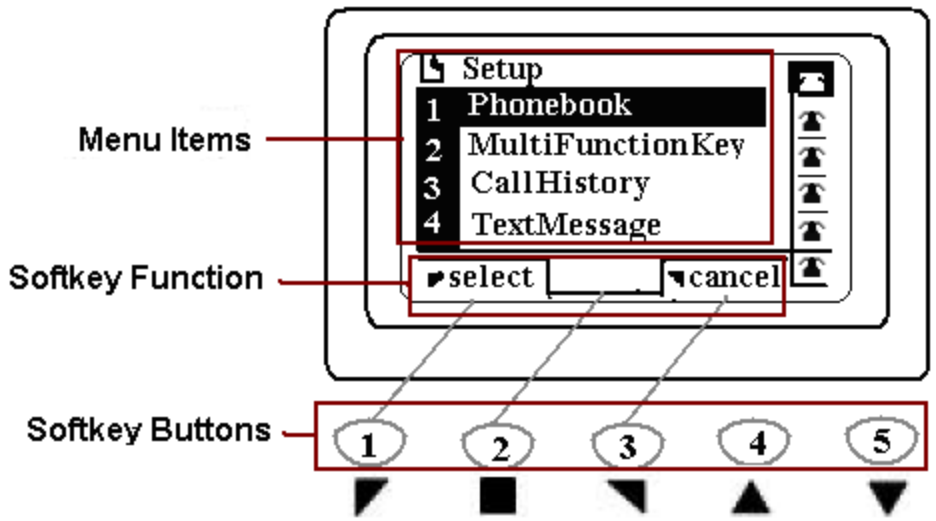


Picture 2



Picture 3

depends on their corresponding content displayed on the LCD at that time.

The softkey ◤ is a left softkey button; press it to realize the left softkey function.

The softkey ■ is a middle softkey button; press it to realize the middle softkey function.

The softkey ◥ is a right softkey button; press it to realize the right softkey function.

The softkey ▲ is an up softkey button; press it to scroll up the items or turn up the function.

The softkey ▼ is a down softkey button; press it to scroll down the items or turn down the function.

In picture 2:

Press the softkey ▼ to choose **ok**.

Press the softkey ■ to choose **en (**this is used to change the input method between digit, capital letters and lower case; **en** stands lower case, **EN** stands capital letter, and **num** stands digit**).**

Press the softkey ◥ to choose **cancel.**

In picture 3:

Press the softkey ◤ to choose **select**.

No choice about softkey ■.

Press the softkey ◥ to choose **cancel.**

Press softkey ▲ to scroll up to **20Login/logout**.

Press softkey ▼ to scroll down to **2MultiFunction Key.**

5	MSG	✧ The key can be used for voicemail selection, press it to access voicemail (must be set up by your phone administrator) ✧ The LED is to indicate voicemail status. Please refer to **3.3 LCD indicator**
	Menu	Press it to access to menu items: such as phonebook, multi-functional key, and call history and so on.
	Redial	The Redial key is used to redial the last dialed number automatically.
	Handsfree / Headset	✧ This button has two operating mode: **Handsfree** and **headset**. ✧ Default is in **Handsfree** mode.

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			✧ You can change the mode by change the value of **Handsfree Key Mode** parameters in **Phone/Preference** webpage, **Miscellaneous** columns. ✧ The LED associated is used to indicate its status; you can refer to **3.3 LED Indicator**.
	6	Numeric Keypad	Enters numeric digits for initiating a call or for entering configuration information.
	7	XFER	The Transfer key is used to transfer a call to another IP phone.
		Hold	The Hold key is used to hold the current call, press it again to release the hold function.
		CONF	The Conference key is used to add the current multiple connected phones into a conference. It performs a phone-bridging function.
		Mute/Del	✧ During an active call, press it to mute the current call. ✧ When input text, press it to delete a digit or number.

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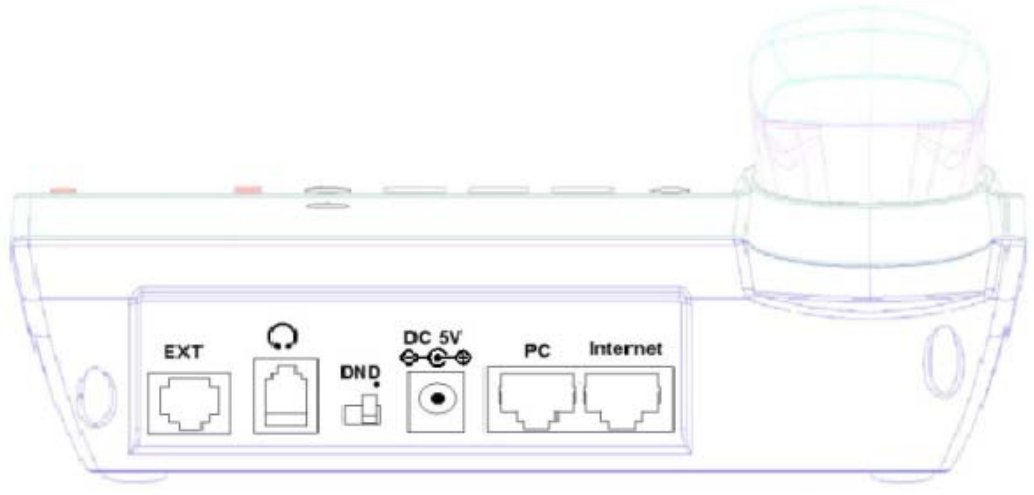
3.2 Rear Panel

Rear Panel	Part Name	Description of function
	EXT	Attended console connect to expansion modules
	Headset	Headset console, connect to headset
	DND Switch	The Switch is used to turn on or turn off DND. Under the character DND is a dot. When the switch near the dot, DND is on; when away, DND is off. Taking the left picture for example, DND is on.
	DC 5V	Power port
	PC	Connects to a PC.
	Internet	Connects to the Ethernet switch, router or Internet.

3.3 LEDs Indicator

LED	Color	Status	Description
MSG		OFF	In-active
		Blinking Green	An new voicemail
		Solid Green	No new voicemail
VoIP Lines 1/2/3/4/5		OFF	Line disable
		Solid Light Red	Not registered
		Solid Green	Registered, line is in standby
		Solid Red	Registered, line is in active call
		Blinking Red	New call incoming
Handsfree/Headset		OFF	Standby

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			Solid Green	In use
Multi-Functional Key	**Speed Dial**		OFF	Not configured
			Solid Green	Configured, in standby
			Solid Red	In use
	BLF		OFF	Not configured
			Solid Green	Configured, in standby
			Blinking Red	A new incoming call in BLF number
			Solid Red	In use
	Shortcut Key		OFF	Not configured
			Solid Green	Configured
	Pick Up		OFF	Not configured
			Solid Green	Configured
			Solid Red	In use
	Call Park		OFF	Not configured
			Solid Green	Configured

3.4 Get Familiar with LCD

3.4.1 Standby

LCD	Name	Description of function
	Date	To display the current date. Date format is mm/dd

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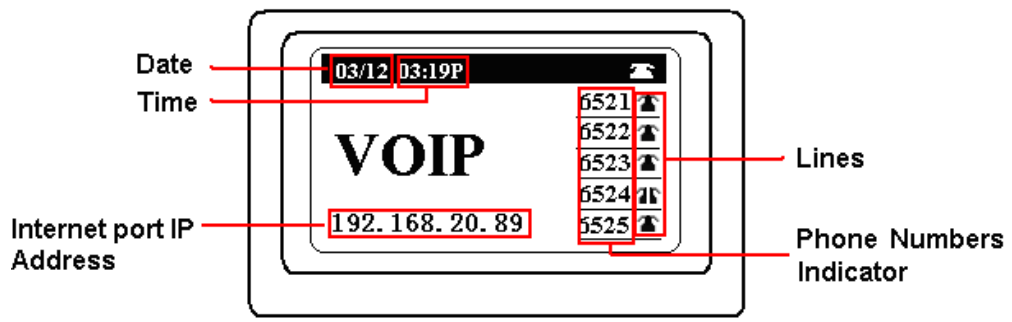
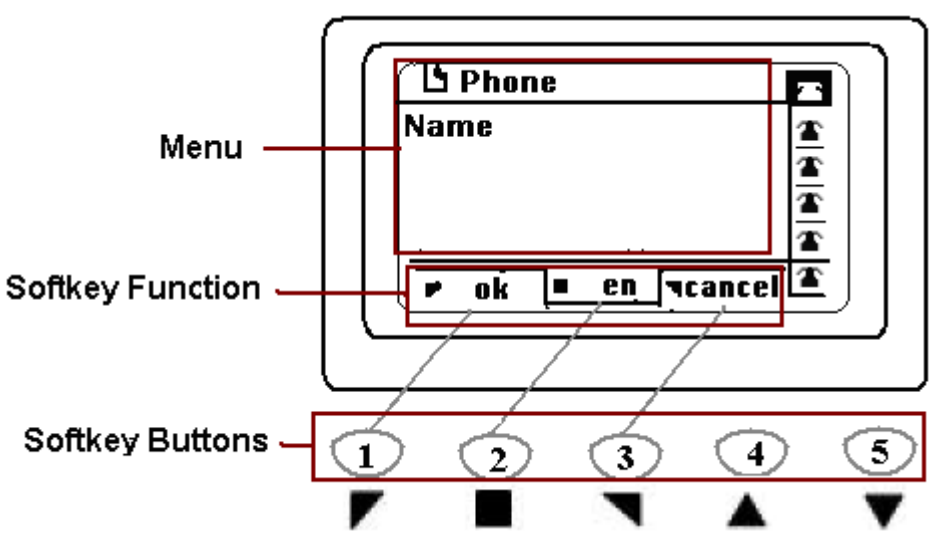
	**Time**	To display the current time. Time format is mm:ss (A or P)
	Internet port IP Address	To display the current IP address of Internet ports if the port normally connect. If the port not connected, it will display 'WAN down'.
	Phone Numbers Indicator	To display the phone number of lines.
	Lines	To display the status of lines. The icon means unregistered. The icon mean registered.

3.4.2 LCD Menu

LCD	Name	Description of function
	**Menu Items**	To display the items of menu.
	Softkey Function	To display the current softkey function.
	Softkey Buttons	**When configuration from Menu:** In this status, you can use the softkey button to highlight the item displayed on the LCD screen and then configuration. The first three soft keys' function depends on their corresponding content displayed on the LCD at that time. The softkey is a left softkey button; press it to realize the left softkey function. The softkey is a middle softkey button; press it to realize the middle softkey function. The softkey is a right softkey button; press it to realize the right softkey function. The softkey is an up softkey button; press it to scroll up the

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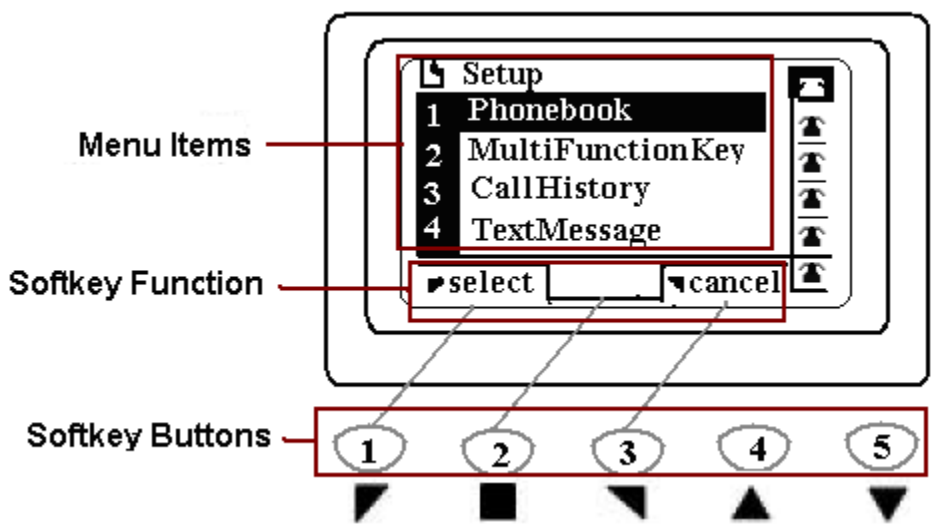
Picture 1



Picture 2

items.
The softkey ▼ is a down softkey button; press it to scroll down the items.

Example 1:
Picture 1:
Press the softkey ◤ to choose **ok**.
Press the softkey ■ to choose **en (**this is used to change the input method between digit, capital letters and lower case, **en** stands lower case, **EN** stands capital letter, and **num** stands digit**)**
Press the softkey ◥ to choose **cancel.**

Example 2:
Picture 2:
Press the softkey ◤ to choose **select**
No function associated with softkey ■.
Press the softkey ◥ to choose **cancel.**
Press softkey ▲ to scroll up to **20Login/logout**.
Press softkey ▼ to scroll down to **2MultiFunction Key.**

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4 Menu

User can use **MENU**, **soft key** and **MUTE/DEL** button to browse, modify and configuration the phonebook, multi-functional keys, network, accounts, factory default and so on.

4.1 Items

The table below lists Menu items which IP652 included:

Main menu (LCD display)	**Menu Items (LCD display)**	**Submenu Items (LCD display)**	**Explanation**
1Phonebook	1.1NewEntry		User can view, add, edit, and delete phonebook using the five softkey. User can also make call, and send text message directly using the five softkey. The Max records are 100.
2Multi-Functional Key	2.1Basic Board		To configuration the function of multi-functional key in basic board.
	2.2ExpansionBoard1		To configuration the function of multi-functional key in ExpansionBoard1.
	2.3ExpansionBoard2		To configuration the function of multi-functional key in ExpansionBoard2.
	2.4ExpansionBoard3		To configuration the function of multi-functional key in ExpansionBoard3.
	2.5ExpansionBoard4		To configuration the function of multi-functional key in ExpansionBoard4.
	2.6ExpansionBoard5		To configuration the function of multi-functional key in ExpansionBoard5.
	2.7ExpansionBoard6		To configuration the function of multi-functional key in ExpansionBoard6.
3Call History	3.1RedialList		To list the latest 100 records of called call, answered call and missed calls.
	3.2Answered Calls		
	3.3Missed Calls		

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4Text Message	4.1SEND		User can send message according to prompt.
	4.2Recived Box		To list the latest 100 records of received message and sent message.
	4.3SentBox		
5BlackList	5.1NewEntry		To configuration the blacklist, max record is 100.
6Preferences	6.1Call Waiting		To enable or disable call waiting
	6.2Auto Answer		To enable or disable auto answer.
7Ring Tone	7.1Bell Type1		Choose the ring tone from Bell Type1- Bell Type15.
	7.2Bell Type2		
	7.3Bell Type3		
	7.4Bell Type4		
	7.5Bell Type5		
	7.6Bell Type6		
	7.7Bell Type7		
	7.8Bell Type8		
	7.9Bell Type9		
	7.1Bell Type10		
	7.11Bell Type11		
	7.12Bell Type12		
	7.13Bell Type13		
	7.14Bell Type14		
	7.15Bell Type15		

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8Volume Setting			To turn up or turn down volume.
9Accounts (need login password)	9.1Line 1	9.1.1Account Enable	To enable/disable line1.
		9.1.2Password	To set password of line1.
		9.1.3Account	To set account of line1.
		9.1.4Display Name	To set display name of line1.
		9.1.5Phone Number	To set the phone number of line1.
		9.1.6SIP Domain Name	To set the SIP domain name or domain name of line1.
		9.1.7SIP Server	To set the SIP server IP address of line1.
		9.1.8SIP Server Port	To set the SIP server port of line1.
		9.1.9Outbound Proxy	To set the outbound proxy IP address or domain name of line1.
		9.1.10Outbound Proxy Port	To set the outbound proxy port of line1.
	9.2Line 2	Same to 9.1	
	9.3Line 3	Same to 9.1	
	9.4Line 4	Same to 9.1	

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	9.5Line 5	Same to 9.1	
10Call Forward	10.1CFWD AllNumber		To set the destination phone number of CFWD AllNumber
	10.2CFWD Busy Number		To set the destination phone number of CFWD Busy Number
	10.3CFWD No AnsNumber		To set the destination phone number of CFWD No AnsNumber
	10.4CFWD No AnsDelay		To set the destination phone number of CFWD No AnsDelay
11Time/Date	11.1Time(H:m:s)		
	11.2Date(m/d/y)		
12Voice Mail	12.1Line 1	12.1.1MWI Enable	To enable or disable voice mail of line1
		12.1.2Voice Mail Number	To set the voice mail number of line1.
	12.2Line 2	Same to 12.1	
	12.3Line 3	Same to 12.1	
	12.4Line 4	Same to 12.1	
	12.5Line 5	Same to 12.1	
13Network	13.1WAN Connection Type		To view the current Internet port’s connection type, or to change the Internet port connection type from Static, DHCP and PPPoE.

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	13.2CurrentIP		To view the current Internet port IP address, or to change the Internet port IP address.
	13.3CurrentNetmask		To view the Current Netmask, or to change the Current Netmask.
	13.4CurrentGateway		To view the Current Gateway, or to change the Current Gateway.
	13.5DNS1		To view the Current Gateway, or to change the Current Gateway.
	13.6DNS2		To view the Current Gateway, or to change the Current Gateway.
	13.7Enable WAN Login		To enable or disable user login webpage from Internet port.
	13.8Web Port		To view the Web Port, or to change the Web Port.
	13.9SIP QoS		To view the SIP QoS, or to change the SIP QoS.
	13.1RTP QoS		To view the RTP QoS, or to change the RTP QoS.
	13.11Data QoS		To view the Data QoS, or to change the Data QoS.
	13.12VLANID		To view the VLANID, or to change the VLANID.
	13.13802.1p Priority		To view the802.1p Priority, or to change the802.1p Priority.
14Product INFO	14.1Product Name		To view the current information of Product Name, Software Version, Hardware Version and MAC Address.
	14.2Software Version		
	14.3Hardware Version		
	14.4MAC Address		
15Status	15.1Account1Status		To view the current information about the status of account1/2/3/4/5.

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	15.2Account2Status		
	15.3Account3Status		
	15.4Account4Status		
	15.5Account5Status		
16Reboot			To reboot IP652.
17Factory Default			To set IP652 factory default.
18Set Password			To reset password. The password of LCD is same as the one of Webpage. Default is null.
19LCD Contrast			To view and change the contrast of LCD.
20Login/Logout			Press it to logout LCD. IP652 will memory the password if user has input the password when access to **9Accounts** and IP652 will not request the password if user access to it again. Press **20Login/Logout** to erase memory, and then user should input password when user access to **9Accounts** again.

4.2 How to configuration from Menu

1) When the phone is on-hook, press the **MENU** button to enter Main menu.
2) Use the **Numeric Keypad** to input the digit or character
3) Press the ■ softkey to change the input method between digit, capital letter and small letter.
4) Use the **up**▲ and **down**▼ **softkey** to scroll up and down. Configuration the item or sub-item according to the prompt.

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5) Press the **ok softkey button** to confirm.

6) Press the **save softkey button** to save changes.

7) Press **MUTE/DEL** button to delete one digit or a character.

8) Press the **cancel softkey button** to cancel changes and back to the up level.

9) The password access to item is the same as the one of admin mode when login Web, default is null.

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5 Using Basic Phone Function

5.1 Using the Handset/ Speakerphone/ Headset

5.1.1 Using the Handset

To place and answer calls using the handset, simply lift the handset.

5.1.2 Using the Speakerphone

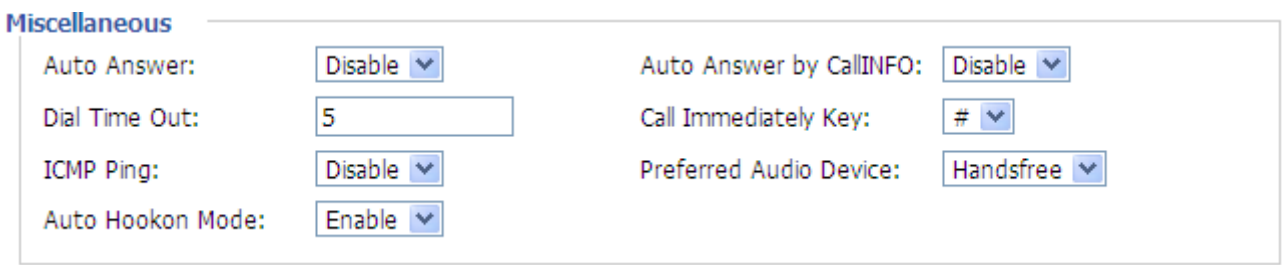
To place and answer calls using the speaker, press the **speaker/headset** button. The green light behind the button will illuminate.

5.1.3 Using the Headset

To use headset, you should enable it firstly with the following steps：

Step 1.Login to the webpage and then open **Phone/Preference** webpage, **miscellaneous** column

Step 2.Find **Handsfree key Mode** parameters**,** choose headset from the drop-down list.



Step 3.Press **Save Settings** button to save.

Step 4.To place and answer calls using the headset, press the **speaker/headset** button. The green light behind the button will illuminate.

5.2 Making Telephone Call

5.2.1 Place a Call

You can place a call by:

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1. Lifting the handset and dialing phone number, followed by the # or wait 5 seconds, IP652 will dial out the phone number
2. Connect the headset, enable headset like 5.1.3, press the headset button and dial phone number, followed by the # or wait 5 seconds, IP652 will dial out the phone number
3. Press the speaker button and dial phone number, followed by the # or wait 5 seconds, IP652 will dial out the phone number

5.2.2 Using Redial Button

To redial the last number called:

Lift the handset or press speakerphone, and then press the **redial** button, the number will be automatically dialed.

5.2.3 Dialing from Phonebook

Adding a phonebook

Below are the steps to add a phonebook in menu, User can also add phonebooks from you PC using IP652 Web Interface.

1) Press **MENU** button access to the menu items, and use the soft key button to choose **1.Phonebook**,
2) Add one phonebook according to the prompt, press the ■**softkey button** to change the input method between digit, capital letter and small letter.

Using phonebook:

Press **MENU** button to access to the menu items, and use the soft key button to choose **1.Phonebook**, and then highlight the phonebook you want to call, press the ◤**dial softkey button** to make call immediately.

5.2.4 Dialing from Call History

Press **MENU** button access to the menu items, and use the ▲**up** and ▼**down softkey button** to choose **3.CallHistory**, and then highlight the phone number you want to call, press the ◤**dial softkey button** to dial immediately.

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5.2.5 Using Speed Dial

Adding a speed dial:

Below are the steps to add a speed dial from menu, User can also set speed dial from you PC using IP652 Web Interface.

1) Press **MENU** button access to the menu items, and use the ▲**up** and ▼**down softkey button** to choose **2. Multi-Function Key**
2) Configuration one **Multi-Function Key** to speed dial according to the prompt.

Making speed dial:

Press the speed dial key to make call immediately.

5.2.6 Using Dial Plan

Adding one dial plan:

1) Open **Phone/Dial Plan** webpage
2) Add one dial plan, user can refer to **7.6.3 Dial Plan**

Using dial plan to make call:

Dial the phone number according to one dial plan.

5.2.7 Using Delayed hotline

Add the delayed hotline from **SIP Account/Account1/2/3/4/5** webpage, **Supplementary Services** column, below is one example:

Step 1.Open **SIP Account/Account1/2/3/4/5** webpage, **Supplementary Services** column

Step 2.Fill in the delayed hotline number, user can also add the delayed time.

Example 1:

set the delayed hotline number is 111.

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Example 2:

set the delayed hotline number is 111 and delayed time is 4 seconds.

5.2.8 Answering a Telephone Call

When a call is incoming, the associated line button will flash and the phone will ring.

You can receive the call by:

1) Pressing the corresponding line button or
2) Pressing the speakerphone, or
3) Lifting the handset, or
4) Auto-answer: if auto-answer is enable, IP652 will answer the phone automatically when there is a call incoming

   Enable auto-answer: press **MENU** button to access to the menu items, then use the **up▲** and **down▼** **softkey** to choose **6Reference**, set auto-answer enable according to the prompt.

   Note: user can also enable auto-answer in **Phone/Preference** webpage, **miscellaneous** column.

5.3 Adjusting Call Volume

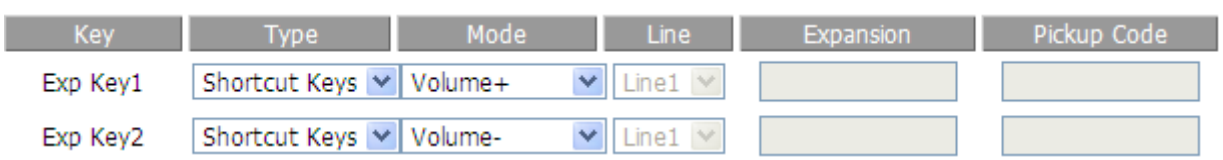
From menu:

Step 1.Press **Menu** button, and then choose **volume**.

Step 2.Press **up▲** and **down▼** **softkey** to turn up or turn down volume.

Using multi-functional key:

Step 1.Choose two multi-functional key (assuming the two multi-functional keys are Exp Key 1 and Exp Key 2), and configuration as follows:



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Step 2.Press **Save Settings** to save changes and user can see the corresponding LED is solid green.

Step 3.Press the **Exp Key1** button to turn up volume, press the **Exp Key 2** button to turn down volume.

5.4 Black List

If user added a black list, IP652 will forbid the phone number incoming.

Adding a black list:

There are two ways to add black list, one is from menu, and the other is from your PC to use IP652's webpage.

From menu:

1) Press **Menu** button, and then choose 5**black list**.
2) Choose **NewEntry**, and then add one black list according to the prompt.

From Webpage:

1) Log on the web, open **Phone/Phonebook** webpage, **Black List** column.
2) Refer to the **7.6.4.1 Black List** to add blacklist.

5.5 Muting a Call

During an active call, pressing the **MUTE/DEL** button to mute the handset, headset or speakerphone. This prevents the person on the active call from hearing what you or someone else in the room is saying; and the MUTE icon at the right side of LCD is on.

To cancel the Mute function, press the **MUTE/DEL** button again and the MUTE icon at the right side of LCD is off.

5.6 Placing a Call on Hold

When IP652 is during one active call:

1) Pressing the **hold** button to put the active call on hold, then you will hear a dial tone, the remote party will hear the hold music
2) User can input the phone number to make call

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3) Pressing the **hold** button again to release the previously Hold state and resume the bi-directional media.

5.7 Three Way Conference Calls

1) To initiate a conference call, press the **HOLD** button during an active call and the first call is placed on hold, and you will hear a dial tone.

2) Dial the second person's telephone number

3) After the second person answers the call, press **CONF** button to start the conference call; all three parties will be participating in a conference call.

4) If you hang up firstly, the other two parties will be disconnected; if one party hangs up firstly, you can go on talking with the other party.

5.8 Attended Transfer

You call the person to whom you are transferring the call and speak to them before transferring the call:

1) To initiate a transfer, press the **HOLD** button during an active call. This places the first call on hold and you will hear a dial tone.

2) Dial the second person's telephone number.

3) When the second person answers, you can have a private conversation with the second person without the first person hearing it.

4) To connect the call to the second person, press the **XFER** button to complete the transfer. You will be disconnected from the call.

5) If you hang up during the call with the second person before pressing **XFER**, the transfer is not completed; this only ends the call with the second person, and you can press the **HOLD** button to continue the first call.

5.9 Unattended Transfer

You can transfer an active call to a third party without announcement.

1) To initiate an unattended (blind) transfer, press the **XFER** button during an active call. The first call is placed on hold and you will hear a dial tone.

2) Now dial the second person's telephone number with immediately ending char "#", IP652 will transfer phone automatically and you will be

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disconnected from the call.

5.10 Forwarding Calls

You can forward all calls, forward calls when the phone is busy or forward calls when there is no answer.

Below are the steps to configuration call forward from menu. You can also set call forwarding options from your PC using the IP Phone Web Interface.

From menu:

1) Press the **MENU** button.
2) Select **10Call Forward** and choose one type of call forwarding.
   - CFWD All Number—Forwards all calls to a single number immediately when there is an incoming call.
   - CFWD Busy Number—Forwards all calls to another number when the phone is busy.
   - CFWD No Ans Number—Forwards calls to another number if there's no answer at your phone.
   - CFWD No Ans Delay—the seconds to delay forwarding calls, if there is no answer at your phone.
3) Fill in the call forwarding number.
4) Press the **■save softkey button** to save changes.

5.11 Call Waiting

Before using call waiting, you should enable it firstly, and default is enabling.

During an active call:

1) If call waiting is enabled, call waiting alerts you with ringing if there is another call is incoming, and the associate line button will change to red blinking, press the line key of the second call to answer the second call with the first call holding, pressing the line button of the first call to back to the first call with the second call holding.
2) If the call waiting is off, new calls would be rejecting and the new caller will hear busy tone when you are on

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another call.

Enable Call Waiting:

You can turn call waiting on or off from menu in **Menu/6References** item.

And user can also enable call waiting by using your PC to open **SIP Account/Account X (1/2/3/4/5)** webpage,

Supplementary Services column.

5.12 Ending a Call

To end a handset call, hang up the handset.

To end a speakerphone call, press the speaker button.

To end a headset call, press the headset button.

5.13 Viewing and Returning Missed Calls

The LCD screen on your IP phone will notify you like the following picture if a call came in that was unanswered.

To return a missed call:

• If the LCD screens shows a missed call:

Step 1.press the **softkey button under miss** to view the call.

Step 2.Press the **softkey button under dial** to return the missed call.

• If the LCD screen does not show a missed call, you can return a call from the Missed Call list:

Step 1.Press the **Menu** button.

Step 2.Then selects **3Call History**.

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Step 3.Then selects **Missed Calls**.

Step 4.Choose the call you want to return and press Dial.

To view a list of all missed calls:

• If the LCD screen shows a missed call, press the **softkey button under miss** to view a list of missed calls.

• If the LCD screen does not show a missed call:

Step 1.Press the **Menu** button.

Step 2.Then selects **3Call History**.

Step 3.Then selects **Missed Calls**.

5.14 Text Message

5.14.1 Sending Message

1) Press **Menu** button, and then choose **4Text Message** by using the ▲**up softkey button** or the ▼**down softkey button**.
2) Press the ◤**select softkey button** to enter to **1SEND** item.
3) Press the ◤**select softkey button** to edit message.

   Note: When inputting text, use the ■ **en softkey button** to change the input method among numbers, capital and lowercase English letters, **en** stands lower case, **EN** stands capital letter, and **num** stands digit
4) Press the ◤**ok softkey button** to input **receivers' phone number**.

   Note: IP652 support group mails, user can send one message to 10 friends or family one a time;

   Press the ◤**ok softkey button** to access to configuration the next receiver's phone number;

   You can select one number in phonebook by pressing the ■**pbook softkey button.**

   If user has configuration the phone numbers which you want to send, press the ◤**ok softkey button** twice to access to the next item (**Sender number)**.

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5) Set Sender phone number, default is line1's phone number.

6) Press the **select softkey button** to send message.

5.14.2 Reading Message

1) Press **Menu** button, and then choose **4Text Message** by using the **up softkey button** or the **down softkey button**.

2) Press the **select softkey button** to enter to **2Recived Box** item or **Sent Box** item.

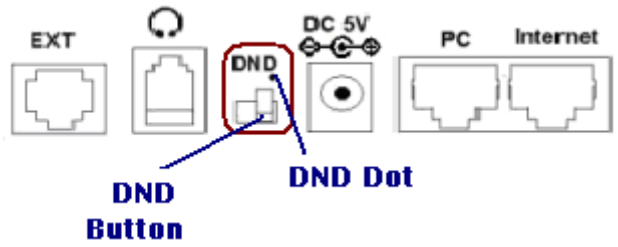
   Note: In Received Box are messages have received from others including new messages and old messages. The ones in Sent Box are messages have sent out.

3) Press the **select softkey button** to access to the next item. Choose the message you want to read by using the **up softkey button** or the **down softkey button**.

5.15 DND (Do Not Disturb)

Use the Do Not Disturb feature to prevent incoming calls from ringing your phone.

To enable Do Not Disturb, push the DND button to the side near the DND dot, below is one picture:



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6 Using Advanced Phone Functions

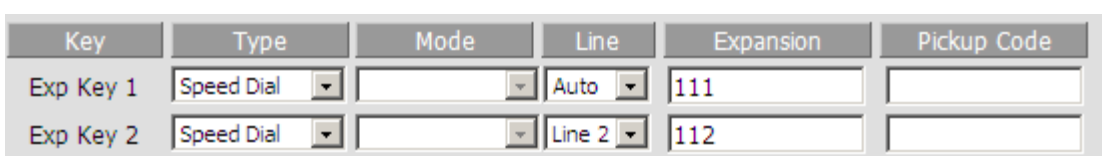
6.1 Speed Dials

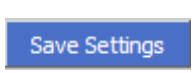
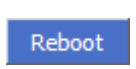
Creating Speed Dials:

Following are the steps to creating speed dials in webpage; you can also creating it from LCD Menu.

1) Access to web, and then open **Phone/Multi-Functional Key** webpage

2) Then configures one Exp key to speed dial, and then choose the line and fill in the phone number. The following picture is a setting example:



3) Press  button to save changes and then press  button to make changes effective.

Using Speed Dials:

1) Press the configured Exp Key 1 to call 111 or press Exp Key 2 to call 112 immediately.

6.2 BLF (Busy Lamp Field)

Your system administrator may configure your phone so that you can monitor other user's phones from your phone. User can create BLF from **Menu/Multi-functional key** or from your PC in **Phone/Multi-Functional Key** webpage.

If this feature is configured, some multi-functional key buttons on your phone are assigned to display the status of another user's phone. For example, if your one multi-functional key is configured to display Bob's phone line, the associate multi-functional key shows you the status of his phone line:

- Green: Line is idle.
- Red (steady): Line is active or in use.
- Red (blinking): Line is ringing.

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In addition, if you have configured the pickup code in BLF, you can press the same multi-functional button to pick up a ringing call at his extension. Moreover, BLF has the function as the same as Speed dial. By pressing BLF function key, your Ipphone will make a call towards expansion number.

The example below describes the steps to configuration the pickup in BLF from Webpage, user can also configuration from **MENU**.

Configure the pickup code in BLF:

1) Access to web, and then open **Phone/Multi-Functional Key** webpage
2) Then configures one Exp key to BLF, and set **Pickup Code** (you can get the pickup code from your administrator). The following picture is a setting example based on Asterisk
3) Press Save Settings button to save changes and then press Reboot button to make changes effective.

To pick up a ringing call:

1) Assuming a ringing call at **003** and the associate LED is blinking.
2) Press 3 **line3 button**, and then press the **Exp key 1** button to pick up the call.

To speed dial a call using BLF function:

1) Fill the blank of Expansion and save settings.
2) Pressing the corresponding multifunctional key. The phone will make a call to expansion number.

6.3 Shortcut Key

The steps below described how to configuration the shortcut key from Webpage, user can also configuration from **MENU**.

Creating Shortcut Key:

1) Access to web, and then open **Phone/Multi-Functional Key** webpage

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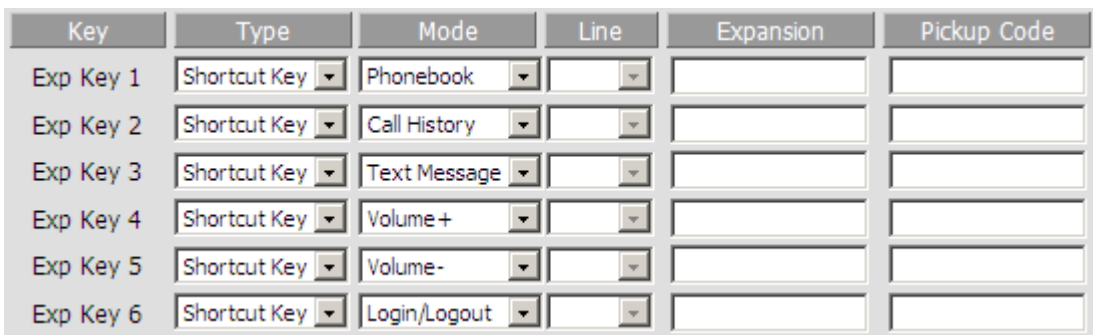
2) Then configures the Exp keys to shortcut key, and set as you need. The following picture is a setting example:



3) Press Save Settings button to save changes and then press Reboot button to make changes effective.

Using shortcut Key:

Press the Exp Key 1, then the LCD will display the phonebook item immediately, and user can configuration it, the steps are same as configuration from menu.

Press the next Exp Keys, and the LCD will display the corresponding item immediately, and user can also configuration it.

6.4 Pickup

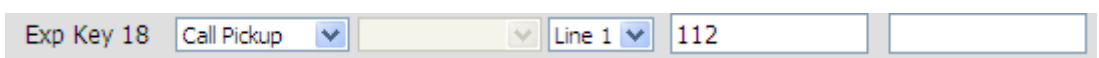
The function of pickup is similar to the speed dial.

The example below describes the steps to configuration the pickup from Webpage, user can also configuration from **MENU**.

Adding pickup:

1) Log in the web, open **Phone/Multi-functional Key** webpage.

2) Choose one Exp key (assuming is Exp Key 18), and configuration as follows, user can refer to **7.6.2 Multi-functional Key**:



3) Press Save Settings button to save changes and then press Reboot button to make changes effective.

Using pickup:

Press the **Exp Key 18** button (the configured multi-functional key) to ring 112 quickly.

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6.5 Call Park

Call Park is a feature of some telephone systems that allows a person to put a call on hold at one telephone set and continue the conversation from any other telephone set.

During an active call, pressing one preprogrammed multi-functional key button to transfer the current telephone conversation to an unused extension number and immediately puts the conversation on hold. The telephone system will then display the extension number of the parked call so that the call can later be retrieved.

If no one picks up the parked call within the set time, the telephone system may ring back the parked call. This transfers the parked call back to the person who originally parked the call.

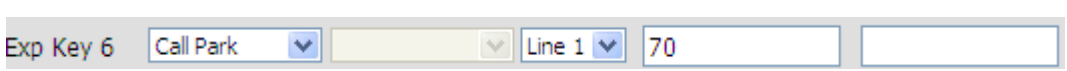
The example below describes the steps to configuration the call park from Webpage, user can also configuration from **MENU**.

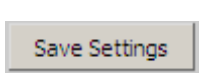
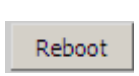
Adding Call Park:

1) View the parking settings in server, below is a example in **TrixBox**

2) Log in the web, open **Phone/Multi-functional Key** webpage.

3) Choose one Exp key (assuming is Exp Key 6), and configuration as follows, user can refer to **7.6.2 Multi-functional Key**:



4) Press  button to save changes and then press  button to make changes effective.

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Using Call Park:

1) During an active call (assuming party 1(IP652)’s phone number is 6521, party 2’s phone number is 111)
2) Party 1 press the **Exp Key 6** button (the configured multi-functional key) to park the current conversation and listen the voice prompt patiently,
3) Party 3 dialing **71** using another phone to retrieve the call with party 2.

6.6 MSG

Voice Mail service must be available on your network to use this feature.

6.6.1 Enable and configuration MSG

There are two ways to enable MSG, one is from menu, and the other is from your PC to use IP652’s webpage.

From Menu:

1) Press **Menu** button to enter menu items and then choose **12Voice Mail**
2) Highlight the line you want to configuration, and then select it
3) And then use the **softkey buttons** to configuration it according to the prompt
4) Press the ■**save softkey button** to save the changes

From Webpage:

1) Log into Web, open **Account X (1/2/3/4/5) /User webpage.**
2) Enable **MWI Enable** and fill in the **Voice Mailbox Numbers** (get the number from your phone administrator), below is a settings example based on Asterisk.

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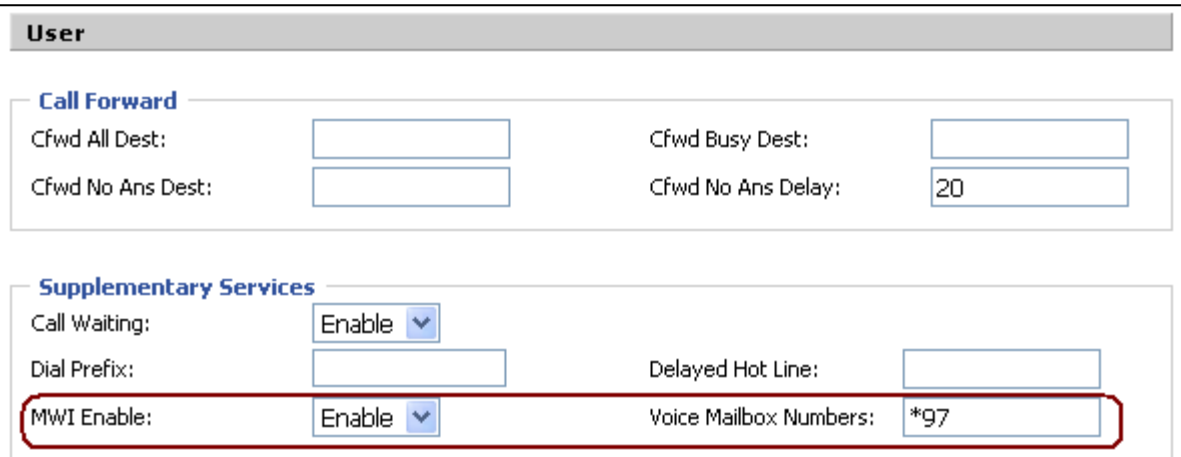

3) Press Save Settings button to save changes, then the notice Please REBOOT to make the changes effective! will appear, press Reboot button to make changes effective.

6.6.2 Using MSG

To access you voice mail box, press the **MSG** button.

Then user can listen to the new voice mail or old voice mail or reply voice mail according to the voice prompt.

6.7 Changing the LCD Screen Contrast

1) Press the **Menu** button, scroll to **19LCD Contrast**, and press the **Select softkey button** to access.
2) Use the **up** and **down softkey buttons** to adjust the screen contrast. Pressing the **Up softkey** button to increase the contrast. Pressing the **Down softkey** button to decrease the contrast.
3) Press the **save softkey button** to save.

6.8 Changing Language

1) Press the **Menu** button, scroll to **6Preference**, and press the **Select softkey button** to access.
2) Choose **1Language** and press **Select softkey button**.
3) Choose **English** or **Russian** and press **Select softkey button.** Then the menu will automatically exit. The corresponding language will display.

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6.9 Changing Your Ring Tone

To change a ring tone:

1) Press the **Menu** button.
2) Select 7**Ring Tone**.
3) Use the ▲**up** and ▼**down softkey buttons** to highlight the ring tone. Press the ◤**select softkey button** to choose the highlighted ringtone.

6.10 Setting Your Phone's Date and Time

The date and time for your phone normally come from the phone server. However, if you need to change some date and time parameters, you can follow these steps:

1) Press the **Menu** button, select **Time/Date**.
2) Choose **date** to adjust date, enter the date in the following format: **mm/dd/yy**.
3) Choose **time** to adjust time, enter the time in the following format: **hh/mm/ss**.
4) Press the he ◤**ok softkey button** to save the changes.

6.11 Rebooting Your Phone

This setting is to configure and troubleshoot the network. You should not change these settings unless directed to by your Administrator as this can negatively affect your phone's function.

To reboot your phone:

1) Press the **Menu** button.
2) Scroll to **16Reboot;** press the ◤**select softkey button** to access to reboot item.
3) Then a notice "**Confirm System Reboot**" will appear, press the ◤**ok softkey button** to confirm rebooting.

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6.12 Factory default

There two ways to make factory default: in menu and using website.

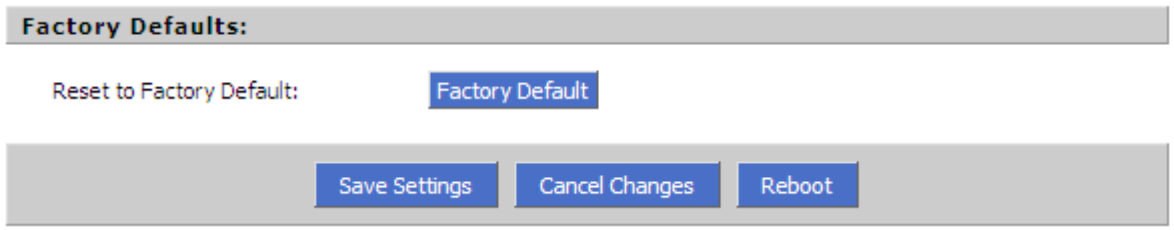
In menu:

Press **Menu** button and choose **17factory Default**, then a notice will appear, press the **ok softkey button** to continue.

Using Website:

Step 1.Access to website, open **Administration/Management** webpage;

Step 2.Press the **factory default** button at the bottom of the webpage;



Step 3.Waiting about 5 seconds, the red notice Please REBOOT to make the changes effective! will appear, and then press **Reboot** button to reboot IP652.

Note: If you choose factory default, you will return the phone to the original factory settings and will erase all current settings, including the directory and call logs.

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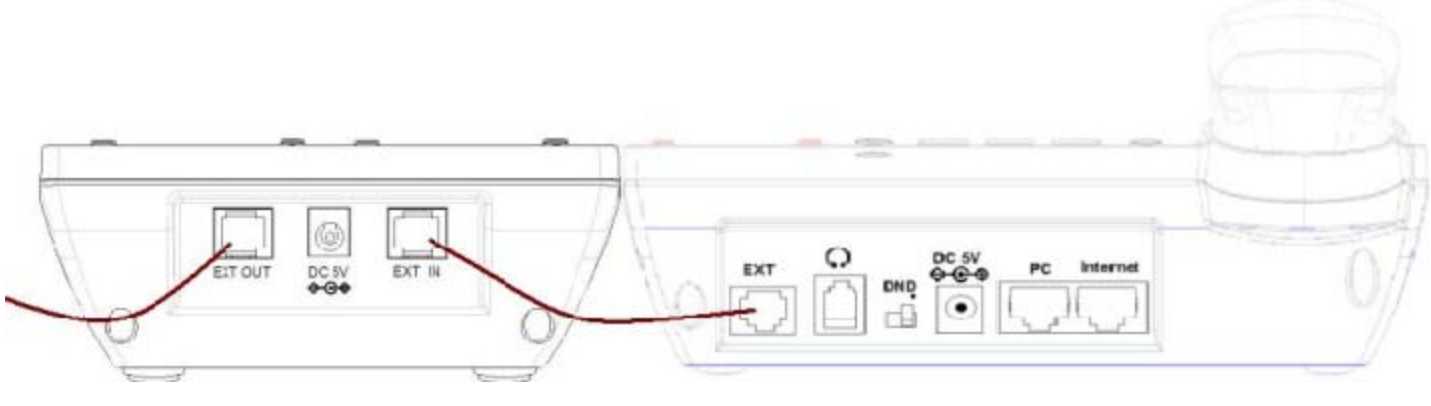
7 EXP40

7.1 Correct Connections

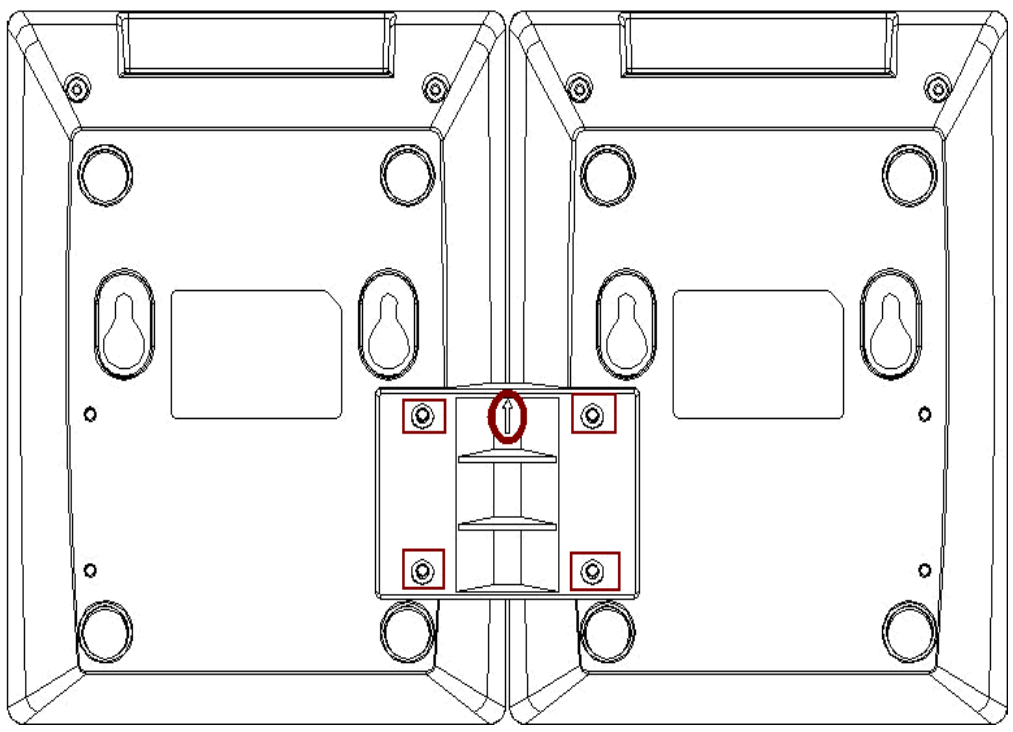
Connect the EXP40 to the IP652; please do like the following picture:

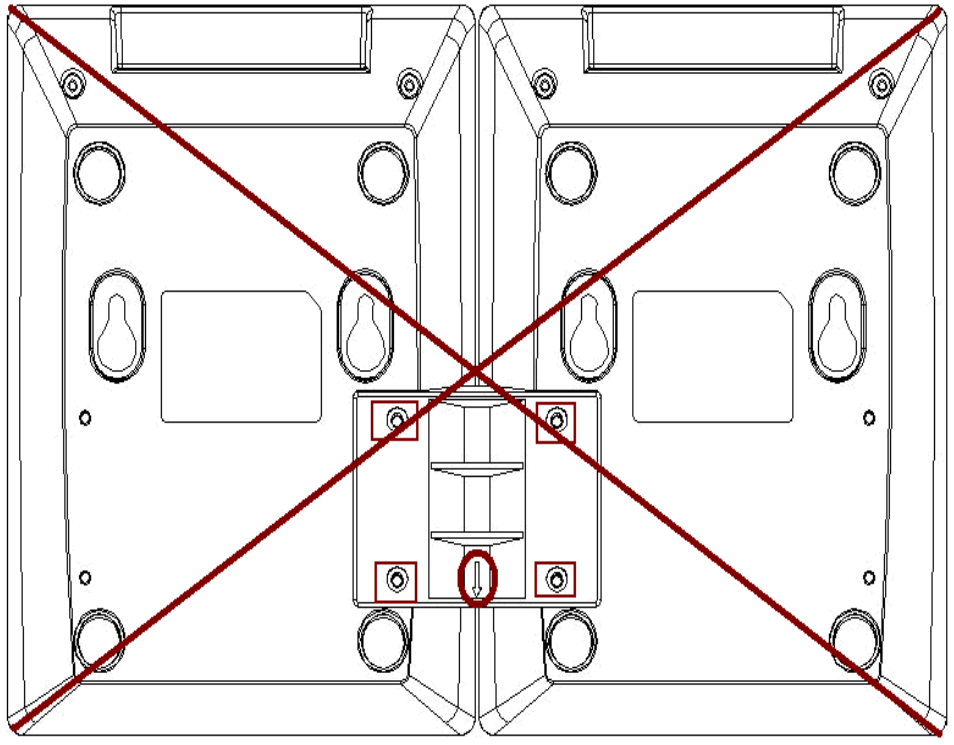
The **EXT IN port** is used to connect to the IP652; the **EXT out** port is used to connect to the next EXP40.



To fix the EXP40 and the IP652 or fix two EXP 40; please do like the following left picture, the right picture is wrong:

Note: the ⇧ iron is used to indicator up.





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7.2 Using EXP40

Below are two pictures: one is EXP40 and the other is IP652 with one EXP40. The IP652 can support 6 EXP40 at mostly.

The EXP40 is the device with 40 multi-functional key, every keys in the EXP40 can be configured as speed dial, BLF, shortcut key, call pickup, and Call Park. The usage of the five kinds (speed dial, BLF, shortcut key, call pickup, and Call Park) is same as the ones in IP652.

EXP40

IP652 with one EXP40

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8 CONFIGURATION

8.1 Web-based Configuration

This section will show you how to configure your IP652 using the web-based configuration interface. The default network settings are as follow:

Default Internet Connection Type: **DHCP**

Default PC Port Connection Type: **NAT**

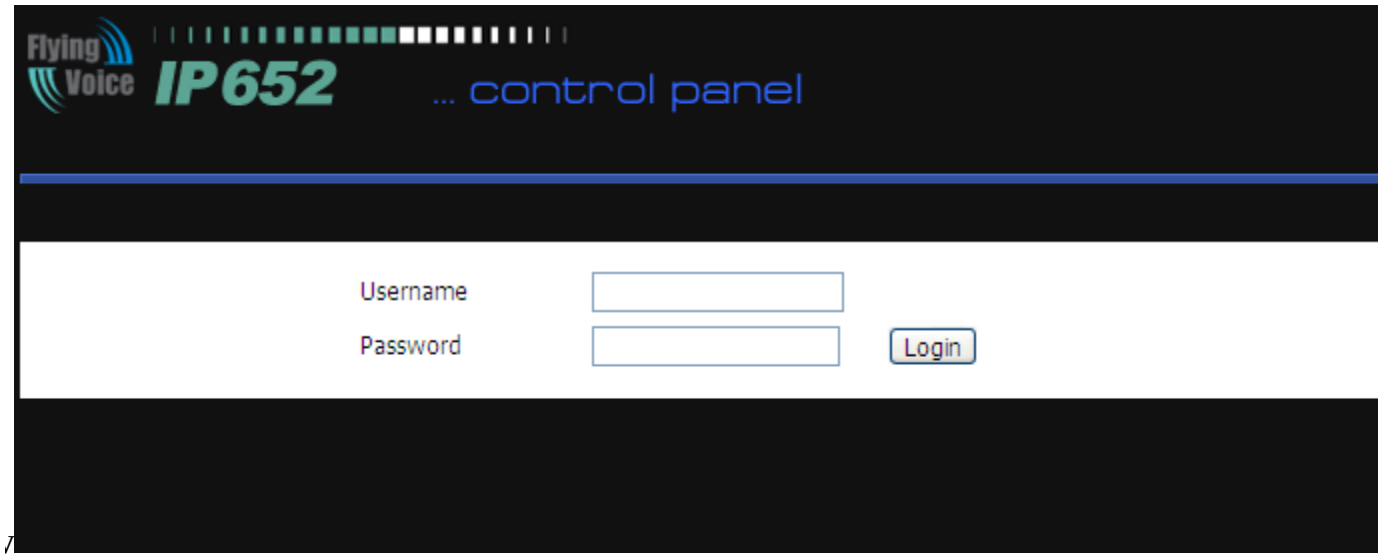
Default user name of admin mode: **admin**

Default password of admin mode: **admin**

Default user name of user mode: **user**

Default password of user mode：**(null)**

Default Web login port: **80**



Web Idle Timeout: **5 min**

Local DHCP Server：Enable

8.2 Login

To access the webpage through a web browser, please following the below steps:

Step 1.Setup IP652 correctly

Step 2.Lookup the Internet IP Address in the left side of LCD

Step 3.Enter **“http://Internet IP Address:80”** in the address field of the browser.

Note: 80 should be added.

Step 4. Type “**admin**” or **“user”** for the User Name and corresponding password for Password, and click on the **Login** button to

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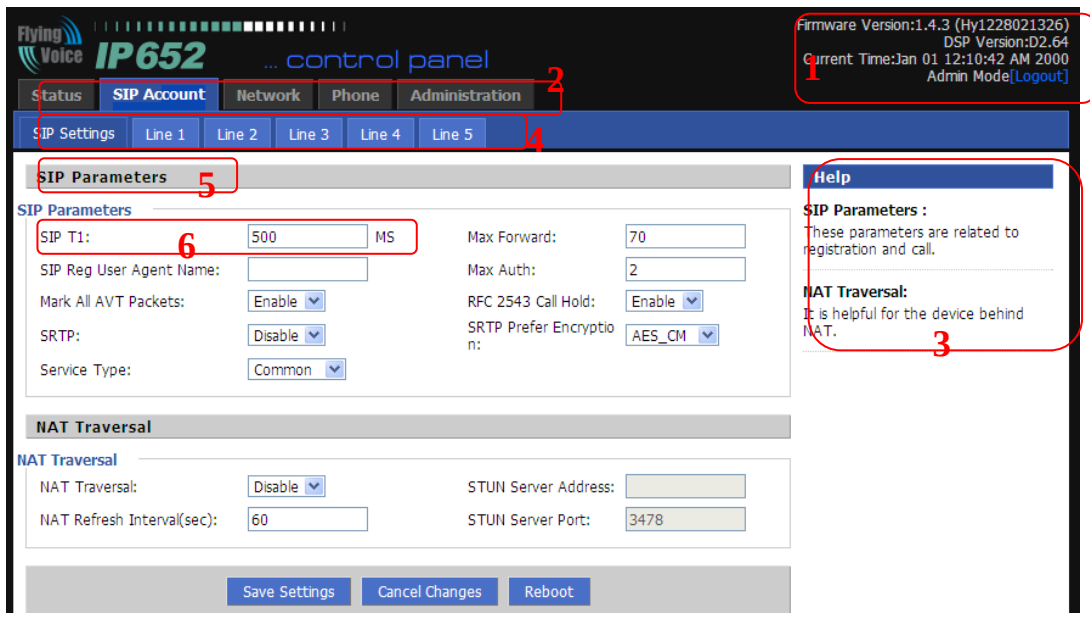
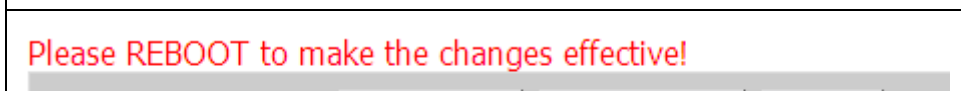
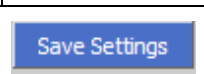
access the configuration page

There are two levels of web configuration: one “user” ID level that can view just some portion in the web, and the other “admin” ID level that can view and configure all settings in the web-based configuration interface. To use “admin” ID for login, please contact your administrator, supplier or service provider.

8.3 Webpage

<table>
<tr><td rowspan="7"> 
</td><td>No.</td><td>Name</td><td>Description</td></tr>
<tr><td>1</td><td>main information</td><td>Display the firmware version, DSP version, Current Time, and administration mode.
Press Logout button to logout.</td></tr>
<tr><td>2</td><td>navigation bar</td><td>Click navigation bar, many sub-navigation bar will appear in the place 4.</td></tr>
<tr><td>3</td><td>Help</td><td>Display the main information for configuration; user can get help from it directly.</td></tr>
<tr><td>4</td><td>sub-navigation bar</td><td>Click sub-navigation bar to enter to configuration webpage</td></tr>
<tr><td>5</td><td>configuration title</td><td>The configuration title</td></tr>
<tr><td>6</td><td>configuration bars</td><td>The configuration bars</td></tr>
<tr><td colspan="2"> 
</td><td> 
</td><td>◆ Every time making some changes, user</td></tr>
</table>

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		should press the button to confirm and save the changes. ◆ After pressing the button, the red Please REBOOT to make the changes effective! will appear to notice user to reboot.
	Cancel Changes	To cancel the changes.
	Reboot	Press it to reboot IP652

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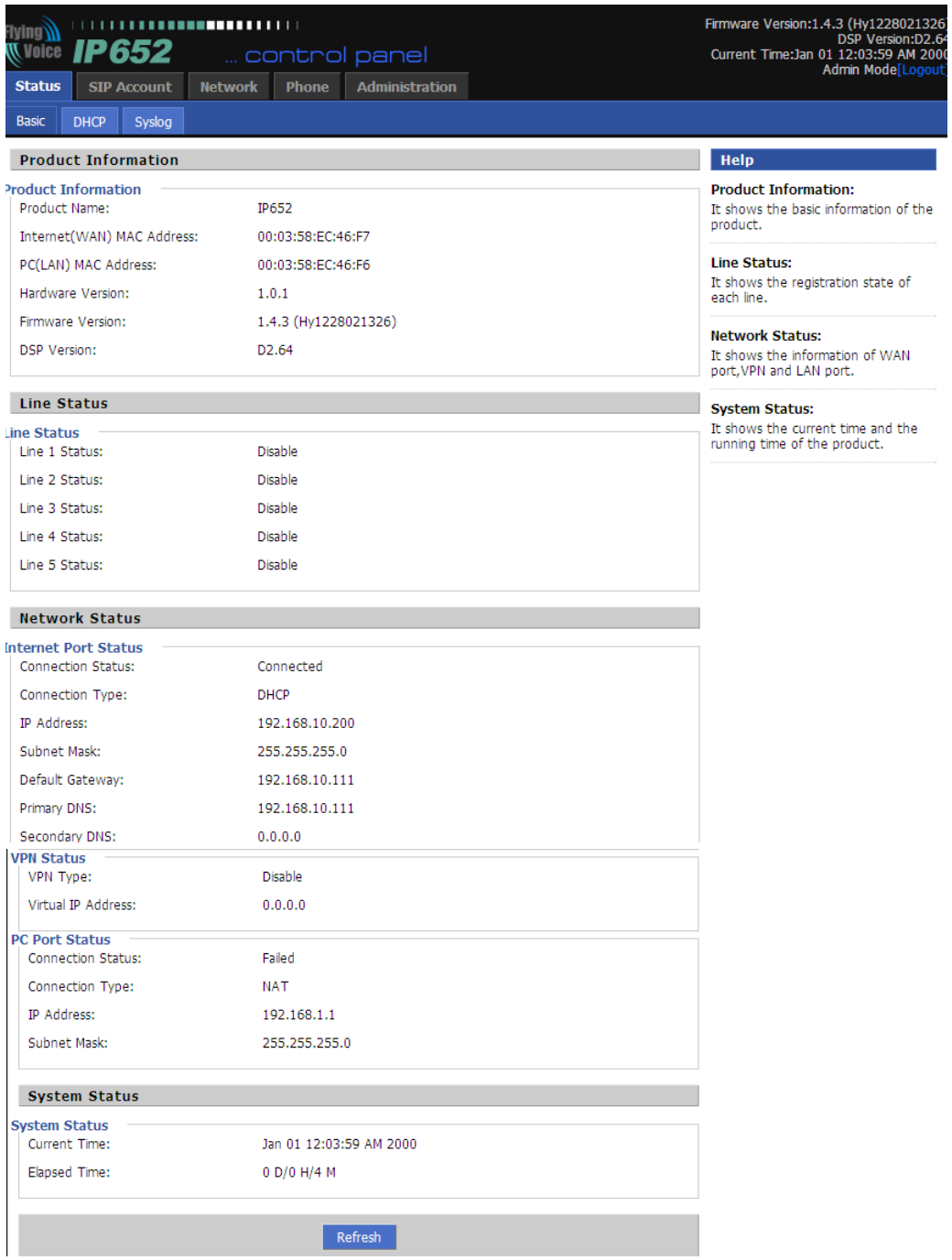
8.4 Status

8.4.1 Basic

This webpage displays the basic status of your IP652, including the information about product information, SIP account status, network status, VPN status, PC port status and system status.

Click **Refresh** button to refresh the status.



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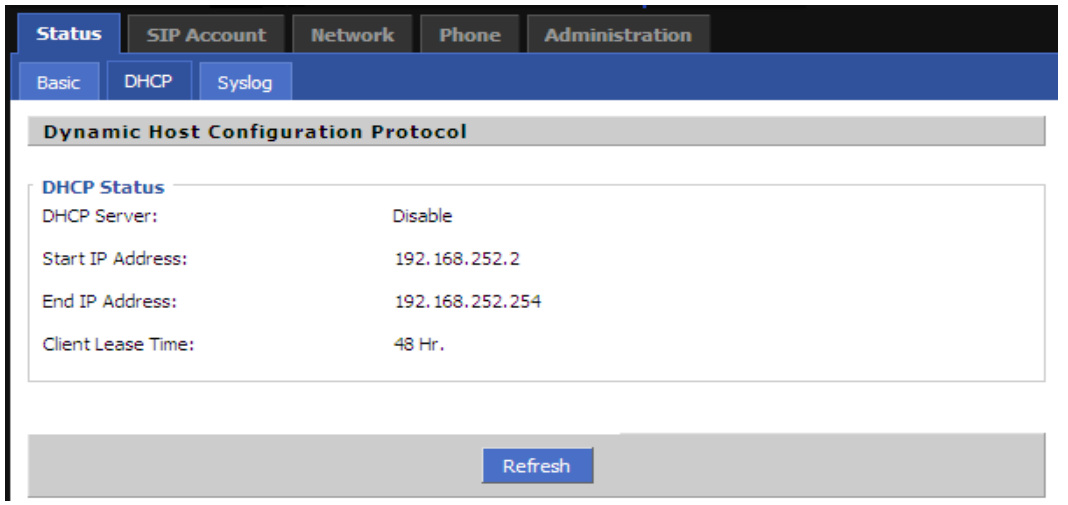
8.4.2 DHCP

IP652 can be used as DHCP server, this page displays the status about DHCP server enable/disable, start IP address, end IP address and client lease time.

Click **Refresh** button to refresh status of DHCP server.

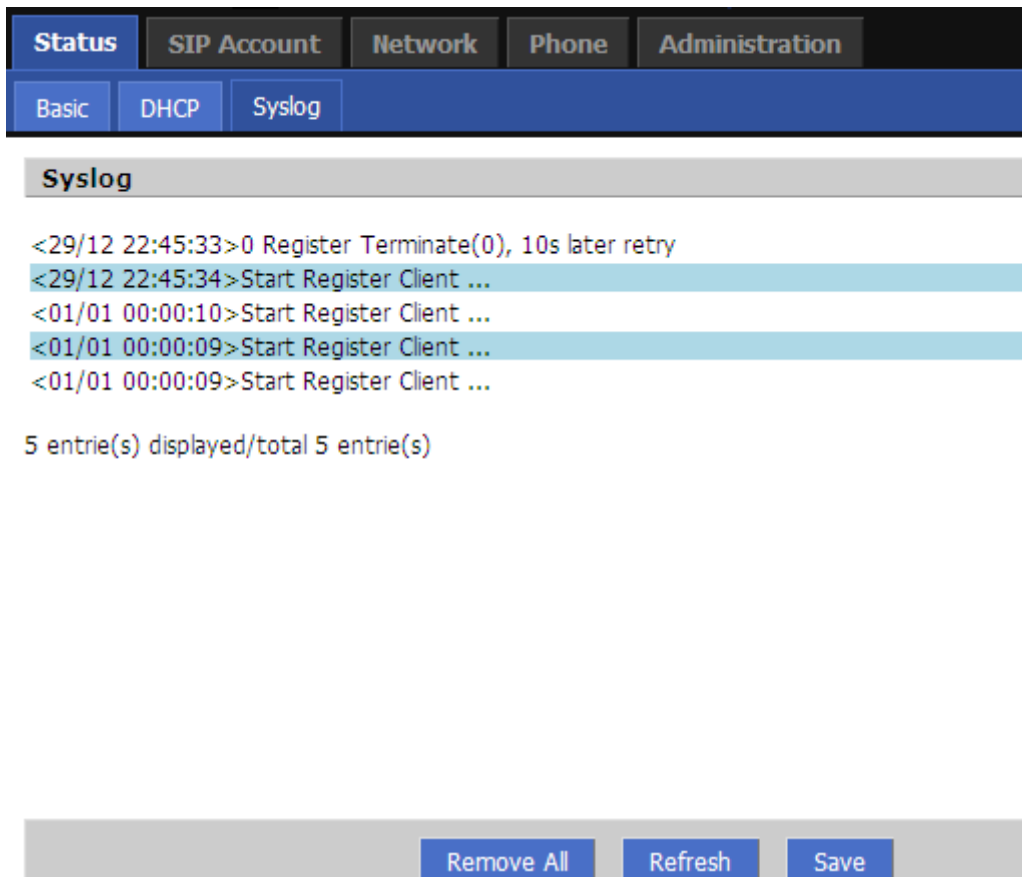


8.4.3 Syslog

This page displays the log of system.

User can press **Remove All** button to clear all information,

Click **Refresh** button to refresh syslog.



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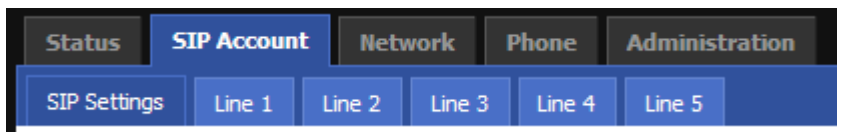
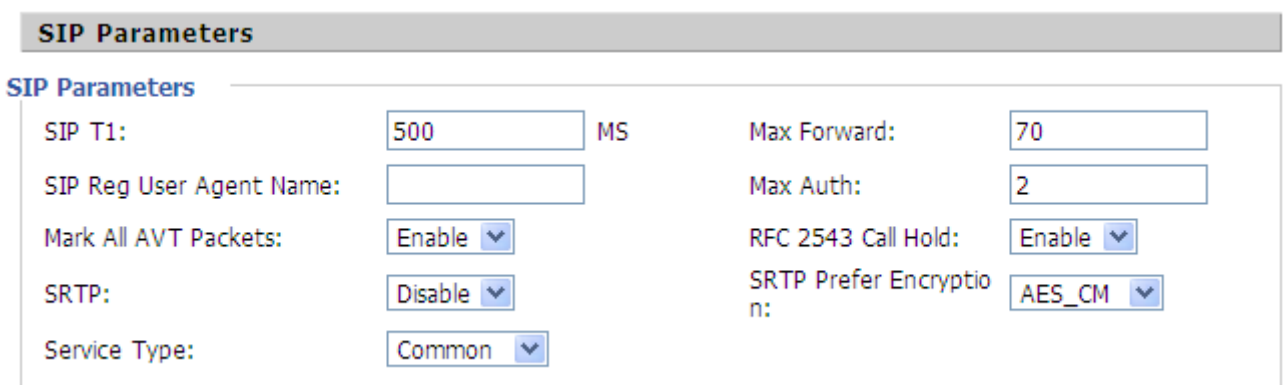
8.5 SIP Account

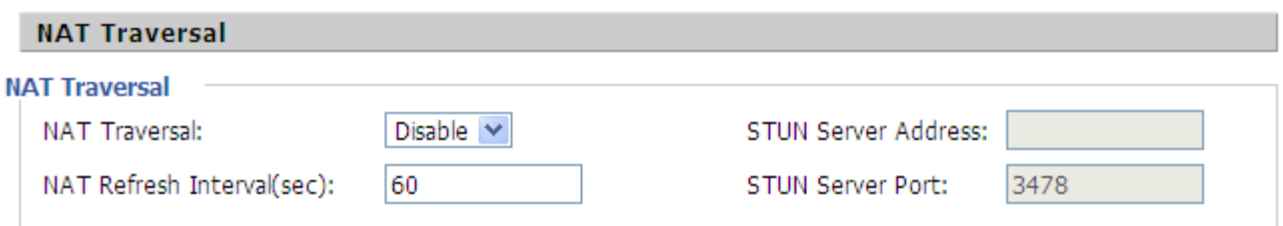
8.5.1 SIP Settings



8.5.1.1 SIP Parameters



8.5.1.2 NAT Traversal

Webpage	Field Name	Description
	NAT Traversal	If or not enable NAT. IP652 supports STUN traversal, choose “STUN” in the “NAT Traversal Mode” if you want traverse NAT/Firewall.
	STUN Server Address	STUN server IP address, default is stun.fwdnet.net
	NAT Refresh Interval (sec)	the interval to refresh
	STUN Server Port	STUN Server Port

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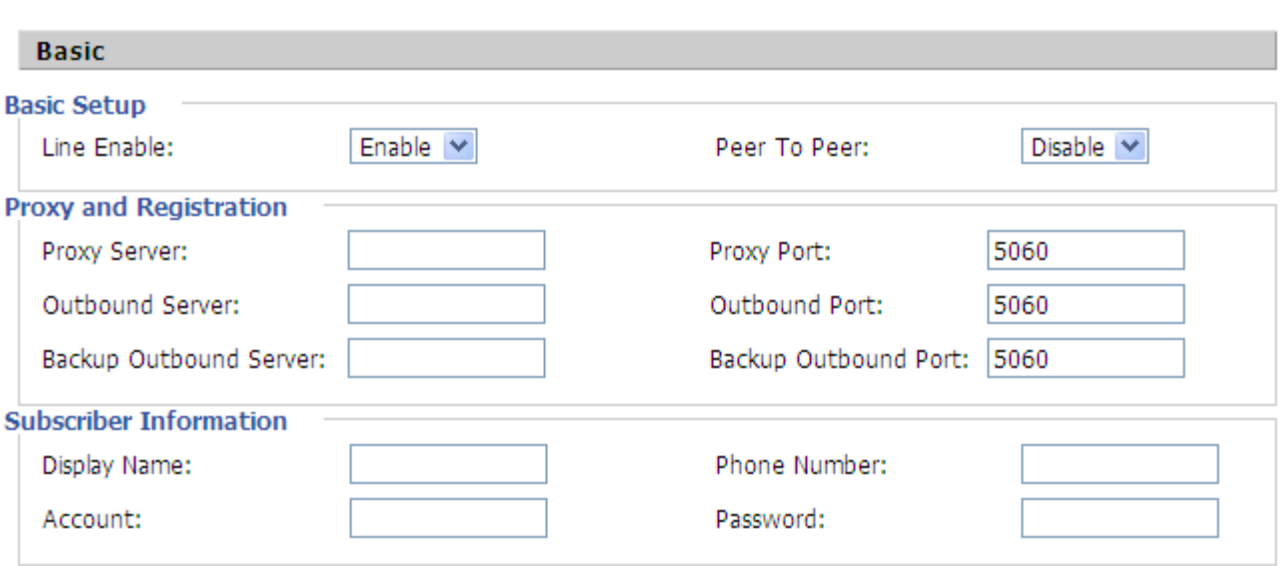
8.5.2 Line 1

In this webpage, users can configuration the information about SIP account1, including the following 4 parts: Basic, Audio Configuration, User and Advanced.

Following is the description about that.

8.5.2.1 Basic

Set the basic information provided by your VOIP Service Provider, such as Phone Number, Account, password, SIP Proxy and so on.

Webpage	Field Name	Description
	Line Enable	If or not enable Line 1
	Peer to Peer	If or not enable PEER to PEER ◆ If enable, SIP-1 will not send register request to SIP server; ◆ In System Status, SIP-1 Status is Registered; ◆ SIP-1 can make call out, but others can not call SIP-1.
	Proxy Server	The IP address of SIP Proxy Server
	Proxy Port	The port which SIP Server supports for VOIP service, default is 5060
	Outbound Server	Outbound Proxy IP or domain name
	Outbound Port	Outbound Proxy's Service port
	Backup Outbound Server	Backup Outbound Server address or domain name
	Backup Outbound Port	Port of Backup Outbound Server
	Display Name	The number will display in callee
	Phone Number	Number of telephone provided by SIP Proxy
	Account	SIP account provided by SIP Proxy
	Password	SIP password provided by SIP Proxy

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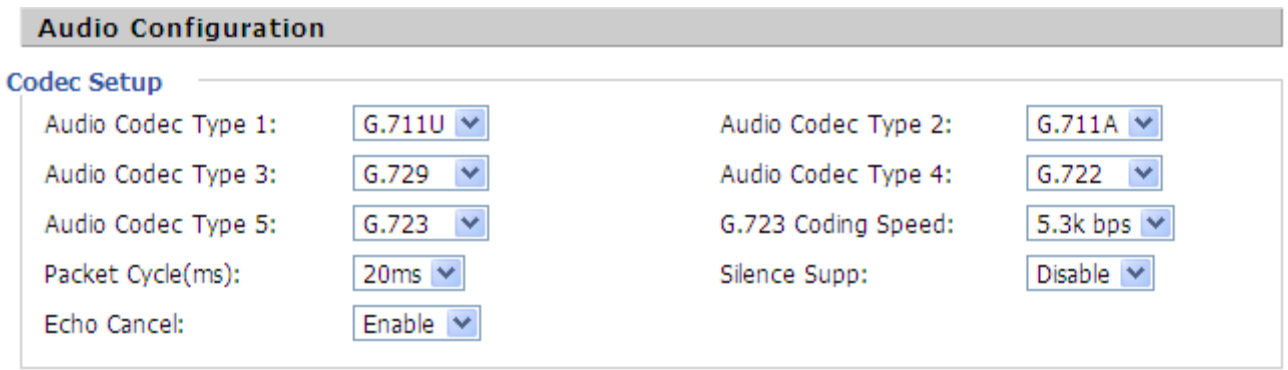
8.5.2.2 Audio Configuration

Select the audio Codec you want to use.

Webpage	Field Name	Description
	Audio Codec Type1	Choose the audio codec type from G.711U, G.711A, G.722, G.729, G.723
	Audio Codec Type2	Choose the audio codec type from G.711U, G.711A, G.722, G.729, G.723
	Audio Codec Type3	Choose the audio codec type from G.711U, G.711A, G.722, G.729, G.723
	Audio Codec Type4	Choose the audio codec type from G.711U, G.711A, G.722, G.729, G.723
	Audio Codec Type5	Choose the audio codec type from G.711U, G.711A, G.722, G.729, G.723
	G.723 Coding Speed	Choose the speed of G.723 from 5.3kbps and 6.3kbps
	Packet Cycle	The RTP packet cycle time
	Silence Supp	If or not enable silence
	Echo Cancel	If or not enable echo cancel

8.5.2.3 Supplementary Services Subscription

Webpage	Field Name	Description
	Call Waiting	If or not enable Call waiting.
	Delayed Hot Line	Fill in the hotline number. Pickup handset or press speaker/headset button, IP652 will dial out the hotline number automatically.
	MWI Enable	If or not enable MWI (message waiting indicate).
	Voice Mailbox Numbers	Fill in the voice mailbox phone number

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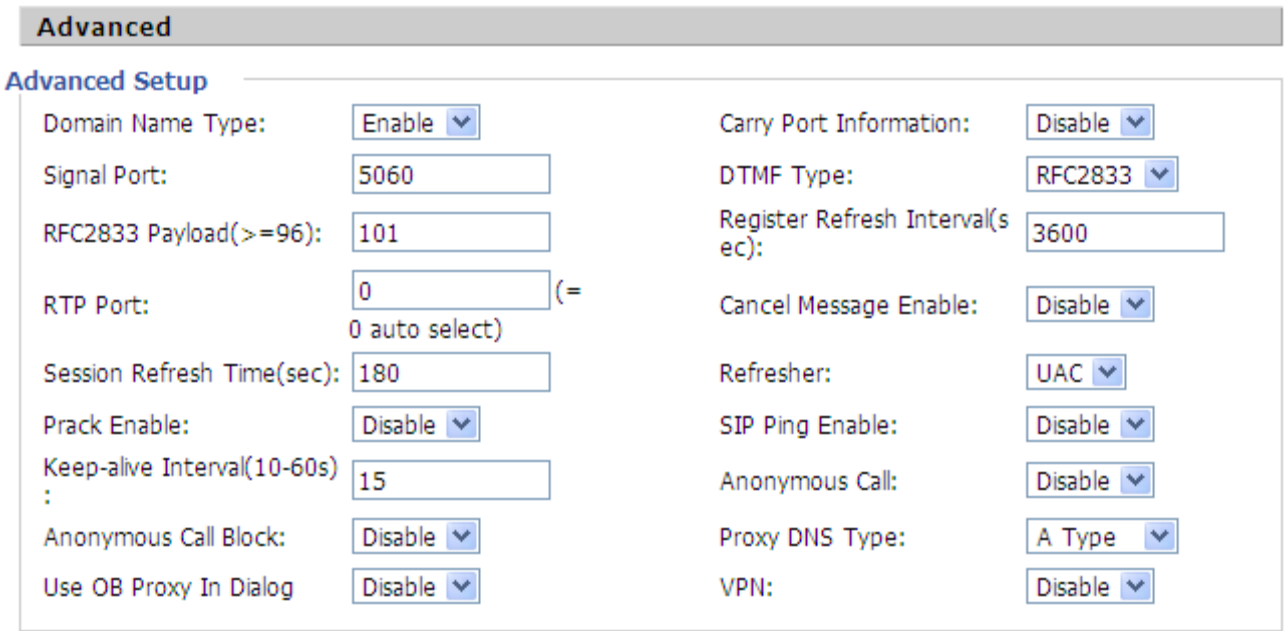
8.5.2.4 Advanced

Webpage	Field Name	Description
	Domain name Type	If or not use domain name in the SIP URI
	Carry Port Information	If or not carry Port information in the SIP URI.
	Signal Port	The local port of SIP protocol, default is 5060
	DTMF Type	Choose the DTMF type from IN_band, RFC2833 and SIP INFO.
	RFC2833 Payload (>=96)	User can use the default setting
	Register Refresh Interval	The interval between two normal Register messages. You can use the default setting.
	RTP Port	Set the port to send RTP. IP Phone will select one idle port for RTP if you set “0”, otherwise use the value user set.
	Cancel Message Enable	When you set enable, an unregistered message will be sent before registration, while you set disable, unregistered message will not be sent before registration. You should set the option for different Proxy.
	Prack Enable	If or not enable prack.
	SIP Ping Enable	If this option enable, IP Phone will send SIP-PING to Server periodically instead of sending hello packet. The send interval is Keep-alive interval.
	Keep-alive interval (10-60s)	The interval that IP Phone will send an empty packet to Proxy.
	Anonymous Call	If or not allow make the dialed call anonymous to other
	Anonymous	If or not forbid anonymous call from others

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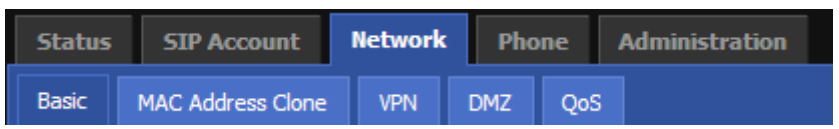
	Call Block	
	Proxy DNS Type	Choose Proxy DNS type
	Use OB Proxy in dialog	If or not use OB Proxy in dialog
	VPN	If or not use VPN

8.5.3 Line 2/3/4/5

The parameters of Line2/3/4/5 are same as Line1 except the value of **Line Enable**.

8.6 Network



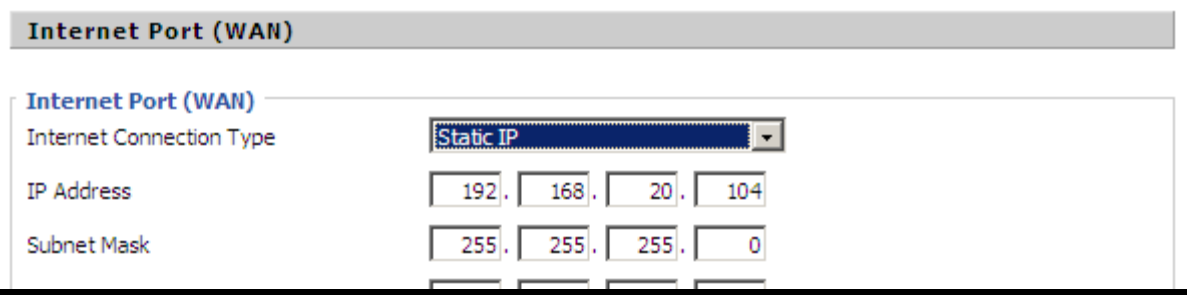
8.6.1 Basic

User can configuration the parameters of Internet Port, PC port and Network Address Server Settings (DHCP). The details are as follows:

8.6.1.1 Internet Port (WAN)

Static:

In static mode, user should fill in the values of IP Address, Subnet Mask, Default Gateway, Primary DNS and Second DNS got from your administration.

Webpage	Field Name	Description
	Internet Connection Type	Choose Static IP.
	IP Address	The IP address of Internet port
	Subnet Mask	The subnet mask of Internet port.
	Default	The default gateway of Internet port.

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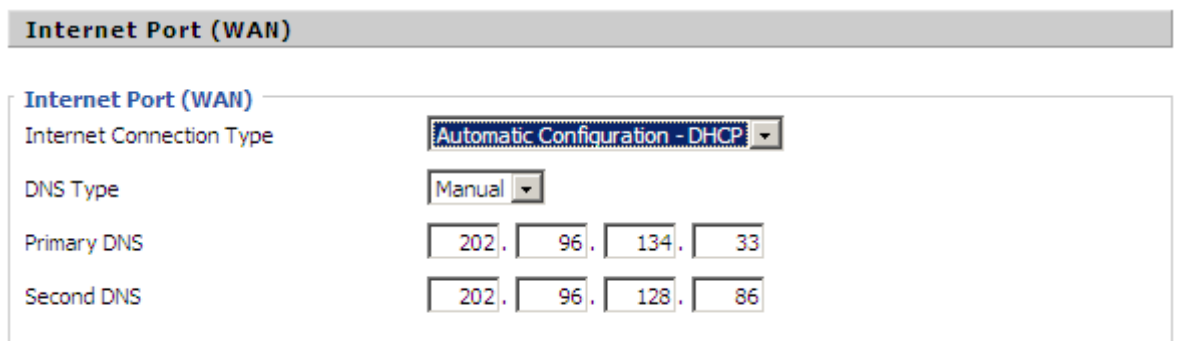
	Gateway	
	Primary DNS	The primary DNS of Internet port.
	Second DNS	The second DNS of Internet port.

DHCP:

In DHCP mode, IP phone is a DHCP client.

IP phone will get the IP Address, Subnet Mask and Default Gateway from the DHCP server.

Webpage	Field Name	Description
	Internet Connection Type	Choose Automatic Configuration-DHCP.
	DNS type	Choose DNS type from Manual and Automatic ◆ In Manual: user should set the Primary DNS and Second DNS manually. ◆ In Automatic: IP Phone will get the Primary DNS and Second DNS from DHCP Server automatically.

PPPoE:

Webpage	Field Name	Description
	Internet Connection Type	Choose PPPoE.
	PPPoE Account	Fill in the PPPoE account which get from Internet Service Provider
	PPPoE Password	Fill in the PPPoE account get from Internet Service Provider
	PPPoE Auto-Dial	If or not enable PPPoE Auto-Dial.
	DNS Type	Choose DNS type from Manual and Automatic ◆ In Manual: user should set the Primary DNS

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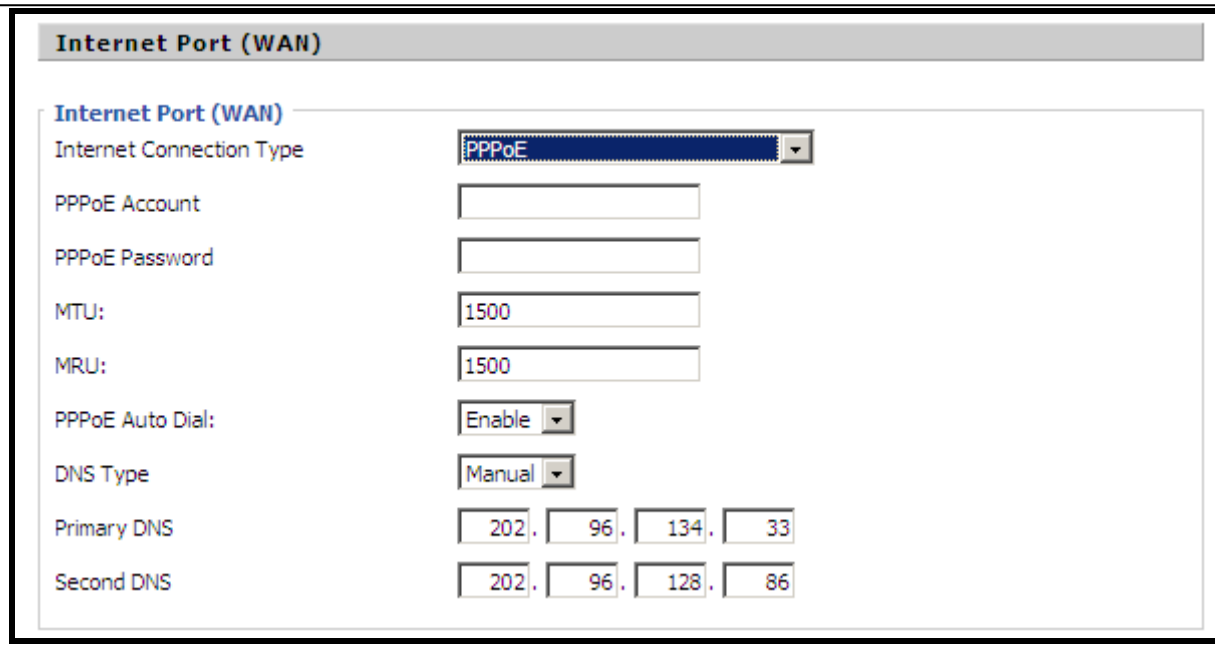
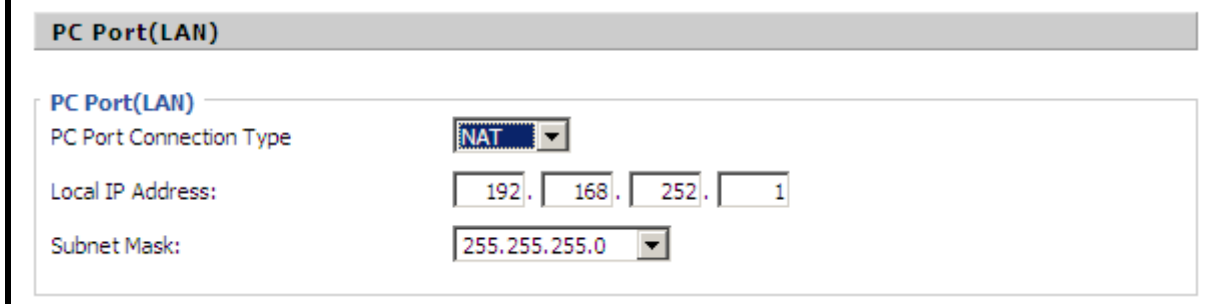
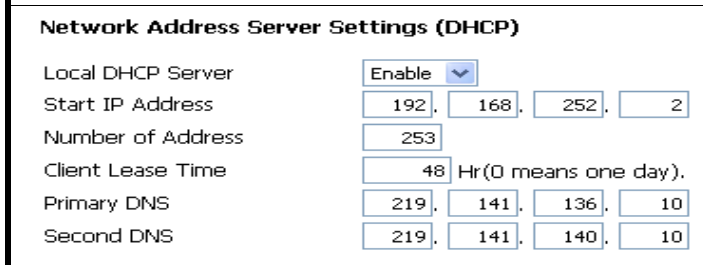
	and Second DNS manually. ◆ In Automatic: IP Phone will get the Primary DNS and Second DNS from DHCP Server automatically.
Primary DNS	The primary DNS of Internet port.
Second DNS	The second DNS of Internet port.

8.6.1.2 PC Port (LAN)

Webpage	Field Name	Description
	PC Port Connection Type	Choose the PC port connection type from disable, NAT and Bridge.
	Local IP Address	Set the IP address of PC port. Efficient when user choose NAT.
	Subnet Mask	Set the subnet mask of PC port. Efficient when user choose NAT.

8.6.1.3 Network Address Server Settings (DHCP)

Webpage	Field Name	Description
	Local DHCP Server	If or not enable DHCP Server. If PC port is not in NAT mode, user can not enable DHCP server.
	Start IP Address	The starting IP address which IP phone will attribute to clients. Note: The Network Sect of DHCP Server Start Address should be the same with the one that IP652's PC port. Generally speaking, you can use the default setting.
	Number of	Number of IP address will distribute to clients.

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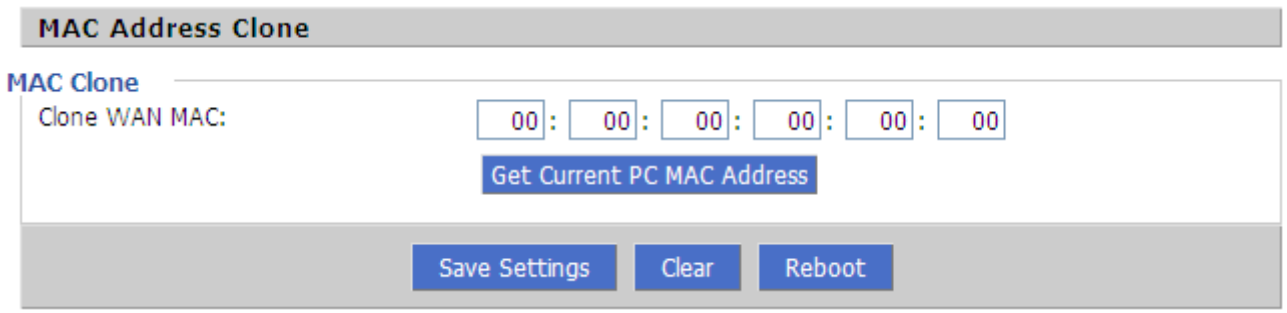
	Address	
	Client Lease Time	The interval of DHCP will send request to continue in period of validity. Unit is hour.
	Primary DNS	Primary DNS that DHCP Server will distribute. You can use the default setting.
	Secondary DNS	Secondary DNS that DHCP Server will distribute. You can use the default setting.

8.6.2 MAC Address Clone

Webpage	Description
	MAC is the hardware address of network equipment. Sometimes, network providers may bind network account with the network equipment's MAC address. So you may not pass the provider's authentication when you use a new IP652. In this case, you can use MAC Clone to copy your PC's MAC address to IP652's Internet port. MAC is an important parameter for network equipments, so you should make sure that the MAC is right, in order to prevent to make IP652 unusable. You can login IP652's Web via PC port if you are incautious to make it wrong. And then cloning the right MAC or resume the default settings.
	Step 1 Press Get Current PC MAC Address button to get the PC's MAC address Step 2 Press Save Settings to save the changes Step 3. Press Clear to cancel MAC address clone. Step 4. Press Reboot to reboot IP652.

8.6.3 VPN

A Virtual Private Network (VPN) is the extension of a private network that encompasses links across shared or public networks like the Internet.

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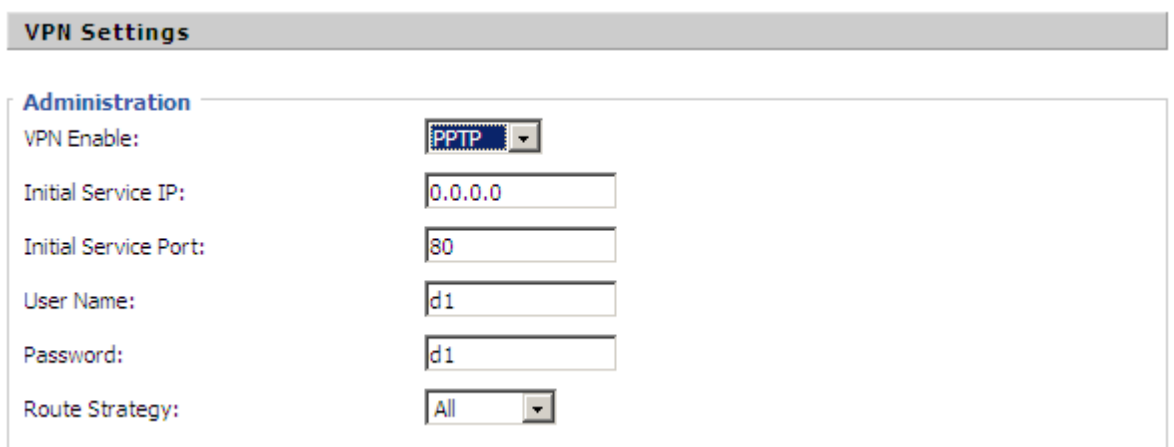
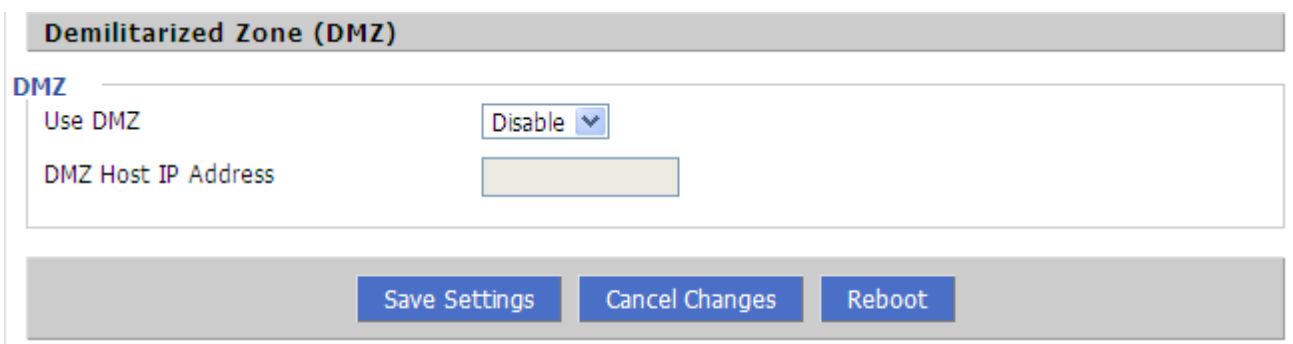
In short, by VPN technology, you can send data between two computers across a shared or public network in a manner that emulates the properties of a point-to-point private link.

Webpage	Field Name	Description
	VPN Enable	If or not enable VPN. And user can choose the VPN mode from PPTP and L2TP.
	Initial Service IP	VPN server IP address
	Initial Service Port	VPN server port
	User Name	The user name for authentication
	Password	Password for authentication
	Route Strategy	Choose route mode from all or SIP

8.6.4 DMZ

IP652 provides a facility DMZ Host that maps ALL unsolicited data on any protocol to a single host in the LAN. Regular web surfing and other such Internet activities from other clients will continue to work without inappropriate interruption. DMZ Host allows a defined internal user to be totally exposed to the Internet, which usually helps some special applications such as Netmeeting or Internet Games etc.

Webpage	Field Name	Description
	Use DMZ	If or not enable DMZ
	DMZ Host IP Address	set the IP address of DMZ host

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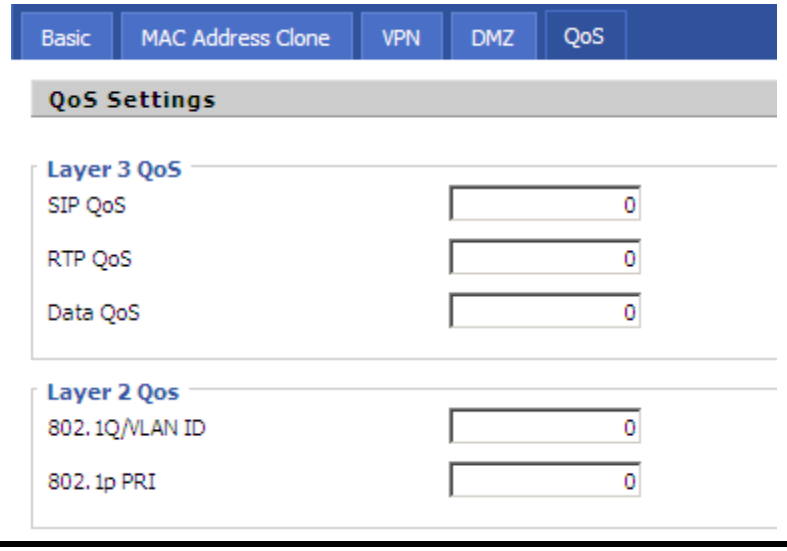
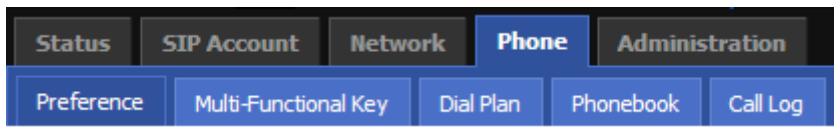
8.6.5 QoS

Webpage	Description
	Some ISP supply QoS services. The QoS services can make the best of improving the quality of Voice application. You can get the settings from the ISP if they supply QoS services. Please connect with them if you need it.

8.7 Phone

User can configuration volume, call forward, multi-functional key, dial plan, phonebook and call log.



8.7.1 Preference

User can configuration the value of ring volume, speakerphone volume, handset volume and so on.

8.7.1.1 Preference

Webpage	Field Name	Description
	Handset Input Gain	Adjust the handset input gain from 0-7
	Handset Volume Gain	Adjust the output gain from 0-7

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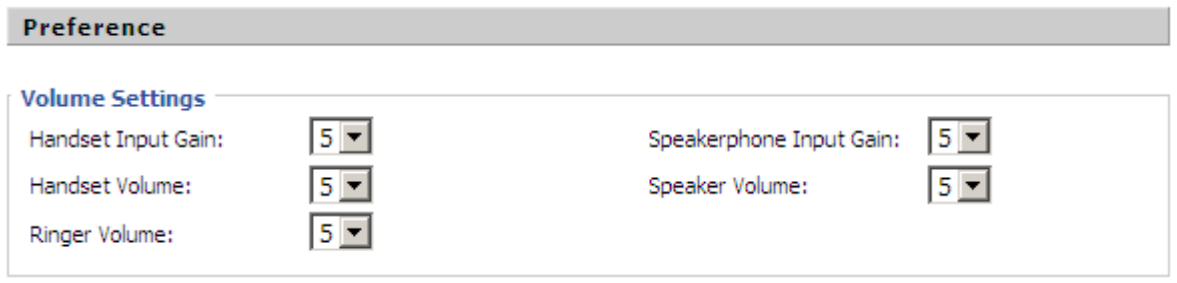
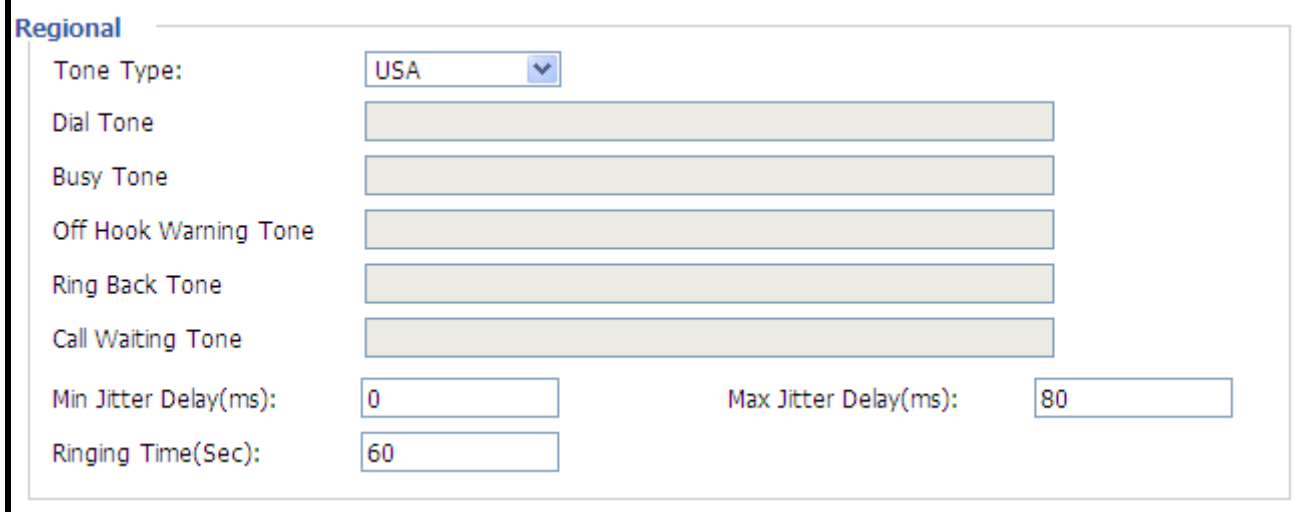
	Speakerphone Input Gain	Adjust the speakerphone input gain from 0-7
	Speaker Volume	Adjust the speaker volume form 0-7
	Ringer Volume	Adjust the ringer volume form 0-7.

8.7.1.2 Regional

Webpage	Field Name	Description
	Tone Type	Choose tone type form China, US, Hong Kong and KR.
	Dial Tone	Fill in dial tone type
	Busy Tone	Fill in busy Tone type
	Off Hook Warning Tone	Fill in off hook warning tone type
	Ring Back Tone	Fill in ring backTone type
	Call Waiting Tone	Fill in call waiting tone type
	Min Jitter Delay (ms)	The Min value of IP652's jitter delay, IP652's jitter is an adaptive jitter mechanism.
	Max Jitter Delay (ms)	The Max value of IP652's jitter delay, IP652's jitter is an adaptive jitter mechanism.
	Ringing Time(Sec)	How long IP652 will ring

8.7.1.3 Call Forward

Webpage	Field Name	Description
	Cfwd All Dest	The phone number which will be forwarded to. IP Phone will forward all calls to the

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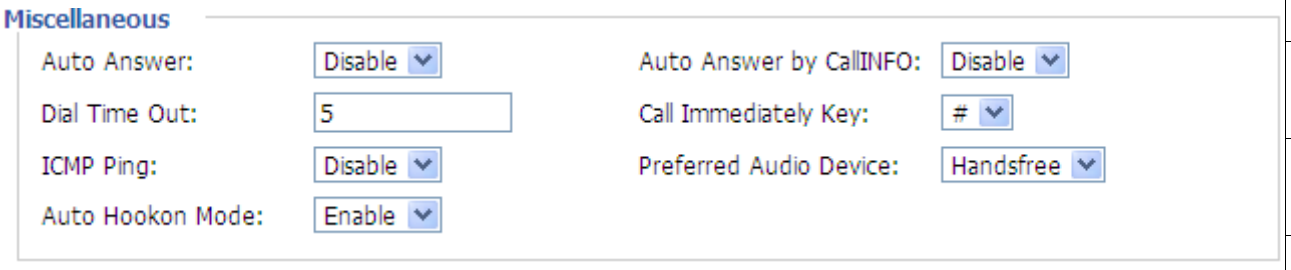
	phone number immediately when there is an incoming call.
Cfwd Busy Dest	The phone number which will be forwarded to when line is busy.
Cfwd No Ans Dest	The phone number which will be forwarded to when there's no answer at your phone.
Cfwd No Ans Delay	The seconds to delay forwarding calls, if there is no answer at your phone.

8.7.1.4 Miscellaneous

Webpage	Field Name	Description
	Auto Answer	If or not enable auto answer. If enable, IP622 will auto answer all incoming call immediately.
	Auto Answer by CallINFO	If or not enable auto answer mode by judging CallINFO.
	Dial Time Out	How long IP622 to sound dial out tone when IP622 dialing number.
	Call Immediately Key	Choose call immediately key form * or #.
	ICMP Ping	If or not enable ICMP Ping. If enable this option, IP622 will ping the SIP Server every interval time, otherwise, It will send “hello” empty packet to the SIP Server.
	Preferred Audio Device	Choose Handfree key mode or Headset Mode
	Auto Hookon Mode	If or not enable auto hookon mode. If the audio device is not handset, then hook up phone automatically.

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8.7.2 Multi-Functional Key

Step 1.Choose one **current key board** to configuration from Basic Board, Expansion Board 1, Expansion Board 2, Expansion Board 3, Expansion Board 4, Expansion Board 5 and Expansion Board 6.

Step 2.Choose one **Exp Key** from Exp Key 1 to Exp Key 20.

Step 3.Choose one **function type** from **speed dial**, **BLF**, **shortcut key**, **call pickup** and **call park**.

Step 4.Set the other corresponding parameters.

Step 5.Press **Save Settings** button to save changes, press **Cancel Changes** button to cancel changes.

Below is an example:

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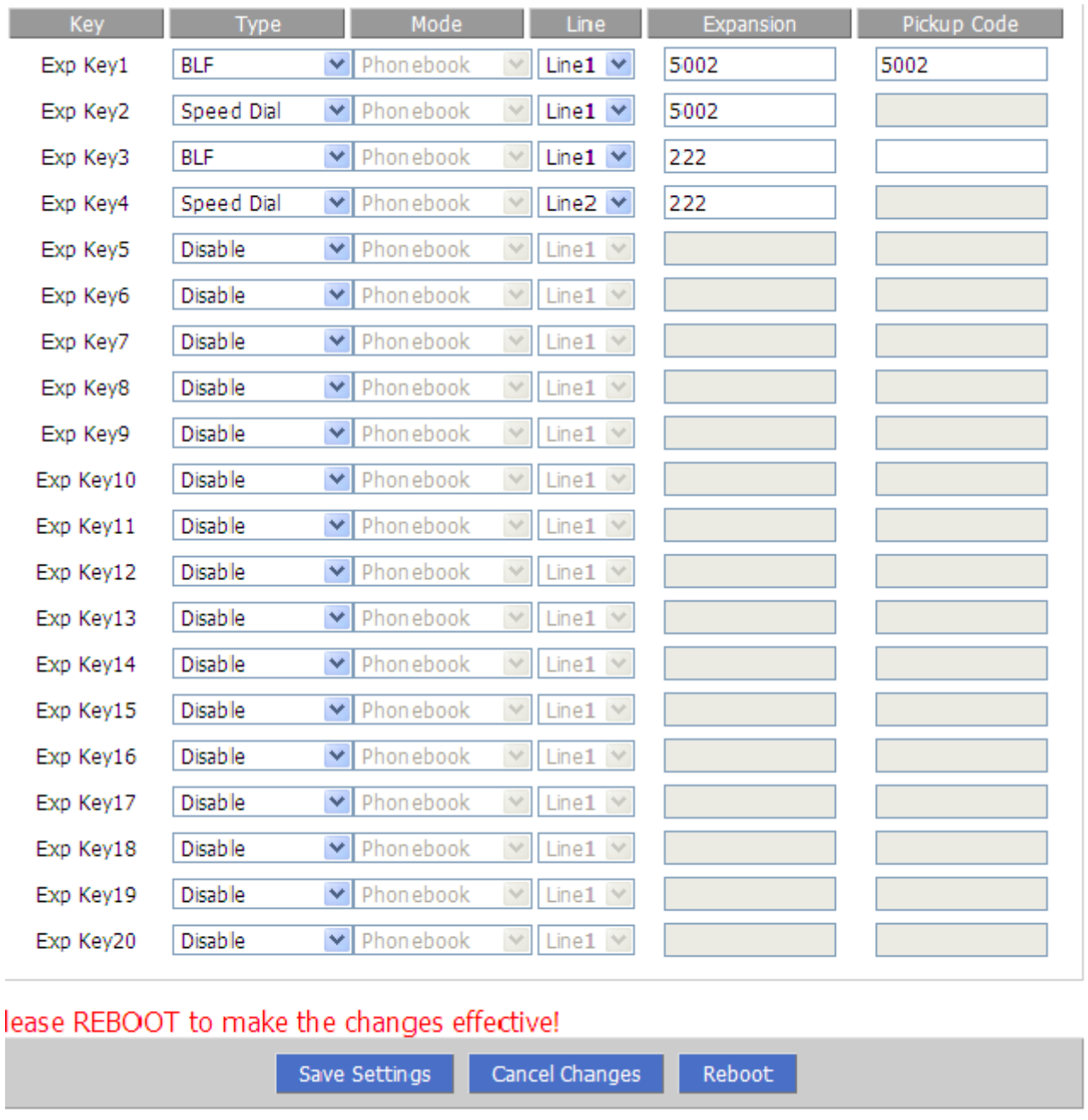

Adding speed dial:

1) Choose one Exp Key to configuration
2) Select the speed dial from the drop down list
3) Choose the Line from auto (the first line registered), line1, line2, line3, line 4 and line 5
4) Fill the phone number in Expansion
5) Press Save Settings to save changes and you can see the status of corresponding LED is solid green.
6) Press Reboot button to make changes effective.

If set properly, press the corresponding key to make call immediately, and the status of LED is solid red.

Adding BLF:

1) Choose one Exp Key to configuration
2) Select the BLF from the drop down list
3) Choose the Line from line1, line2, line3, line 4 and line 5.
4) Fill the monitored phone number in Expansion
5) Fill the pickup code in **Pickup Code** if user wants to pickup the call when there is a new call coming in monitored phone.
6) Press Save Settings to save changes and you can see the status of corresponding LED is solid green.

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7) Press Reboot button to make changes effective.

Adding shortcut key:

1) Choose one Exp Key to configuration
2) Select the shortcut key from the drop down list
3) Select the mode from the phonebook, call history, text message, volume+, volume- and login/logout in the drop down list.
4) Press Save Settings to save changes and you can see the status of corresponding LED is solid green.
5) Press Reboot button to make changes effective.

If set properly, press the corresponding button to access to phonebook, call history, text message, volume+, volume- and login/logout menu directly.

Adding Call Pickup:

1) Choose one Exp Key to configuration
2) Select the call pickup from the drop down list
3) Choose the Line from line1, line2, line3, line4 and line5.
4) Fill the phone number in Expansion
5) Press Save Settings to save changes and you can see the status of corresponding LED is solid green.
6) Press Reboot button to make changes effective.

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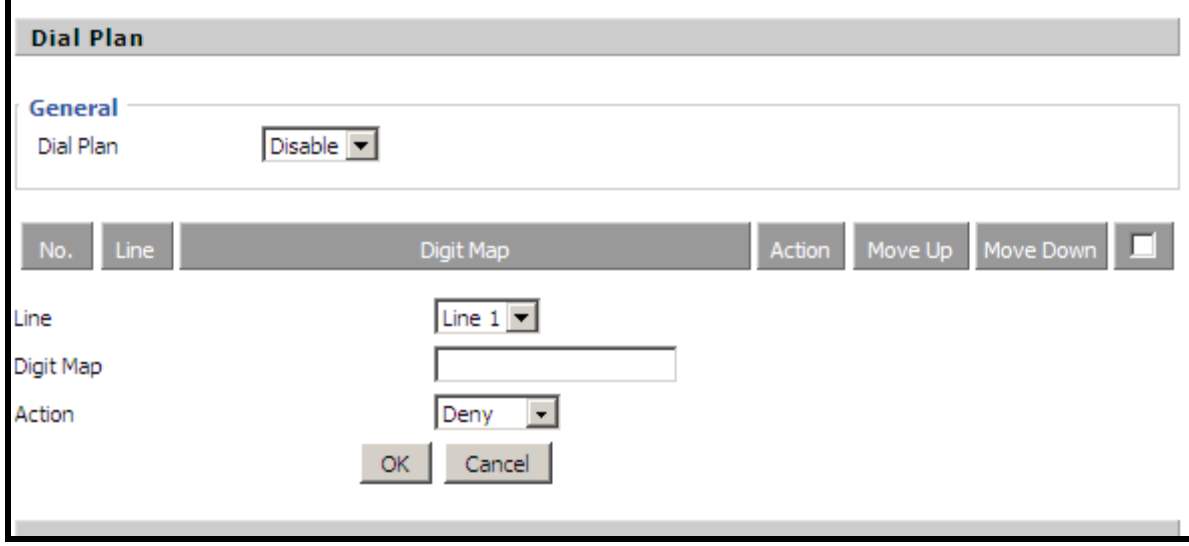
	In idle, press the corresponding button to make call immediately. **Adding call park:** 1) Choose one Exp Key to configuration 2) Select the **Call Park** from the drop down list in type 3) Choose the Line from line1, line2, line3, line 4 and line 5. 4) Fill the pickup extension code in Expansion 5) Press Save Settings to save changes and you can see the status of corresponding LED is solid green. 6) Press Reboot button to make changes effective.

8.7.3 Dial Plan

8.7.3.1 Parameters and Settings

Webpage	Field Name	Description
	Dial Plan	If or not enable dial rule.
	Line	Choose the call mode from line1, line2, line3, line4 and line5.
	Digit Map	Fill in the sequence used to match input number
		The syntactic, please refer to the following **Dial Plan Syntactic**
	Action	Choose the dial plan mode from Deny and Dial Out. **Deny** means IP652 will reject the matched number, while **Dial Out** means IP652 allow dial

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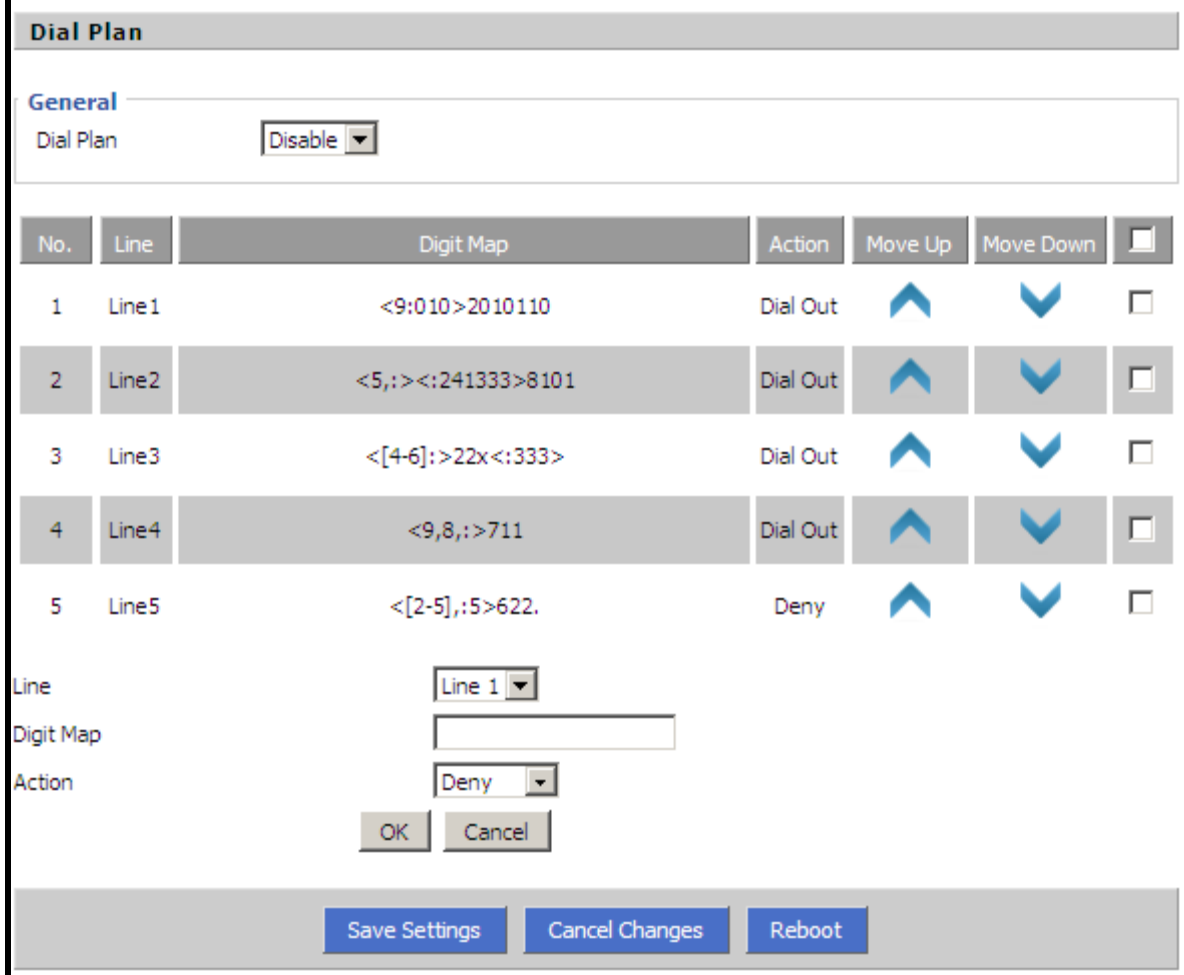
Picture 1		out the matched number.
	Move Up	Press it to move up.
	Move Down	Press it to move down.



Picture 2

Steps :

Adding one dial plan:

Step 1. Enable Dial Plan

Step 2. Click **Add** button, and the configuration table like Picture 1 will appear

Step 3. Fill in the value of parameters.

Step 4.Press **OK** button to end configuration.

Step 5. Press **Save Settings** button to save changes.

Editing one dial plan:

Step 1. Enable Dial plan

Step 2. Choose one dial plan

Step 3. Click **Edit** button, and the configuration table like Picture 2 will appear

Step 4. Change the value of parameters.

Step 5.Press **OK** button to end configuration.

Step 6. Press **Save Settings** button to save changes.

Deleting one dial plan:

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	Step 1. Enable Dial plan Step 2. Choose one dial plan Step 3. Click **Delete** button to delete the dial plan

8.7.3.2 Dial Plan Syntactic

No.	String	Description
1	0 1 2 3 4 5 6 7 8 9 * #	Legal characters
2	X	Lowercase letter x stands for one legal character
3	[sequence]	To match one character form sequence. For example: • [0-9]: match one digit form 0 to 9 • [23-5*]: match one character from 2 or 3 or 4 or 5 or *
4	x.	Match to x^0, x^1, x^2, x^3….. x^n For example: “01.”: can match ”0”, “01”, “011”, ”0111”, …….., ”01111…”
5	<dialed: substituted>	Replace dialed with substituted. For example： <8:1650>123456： input is “85551212”, output is“16505551212”
6	x,y	Make outside dial tone after dialing “x”, stop until dialing character “y” For example： “9,1xxxxxxxxx”:IP652 make outside dial tone after inputting “9”, stop tone until inputting “1” “9,8,010x”: make outside dial tone after inputting “9”, stop tone until inputting “0”

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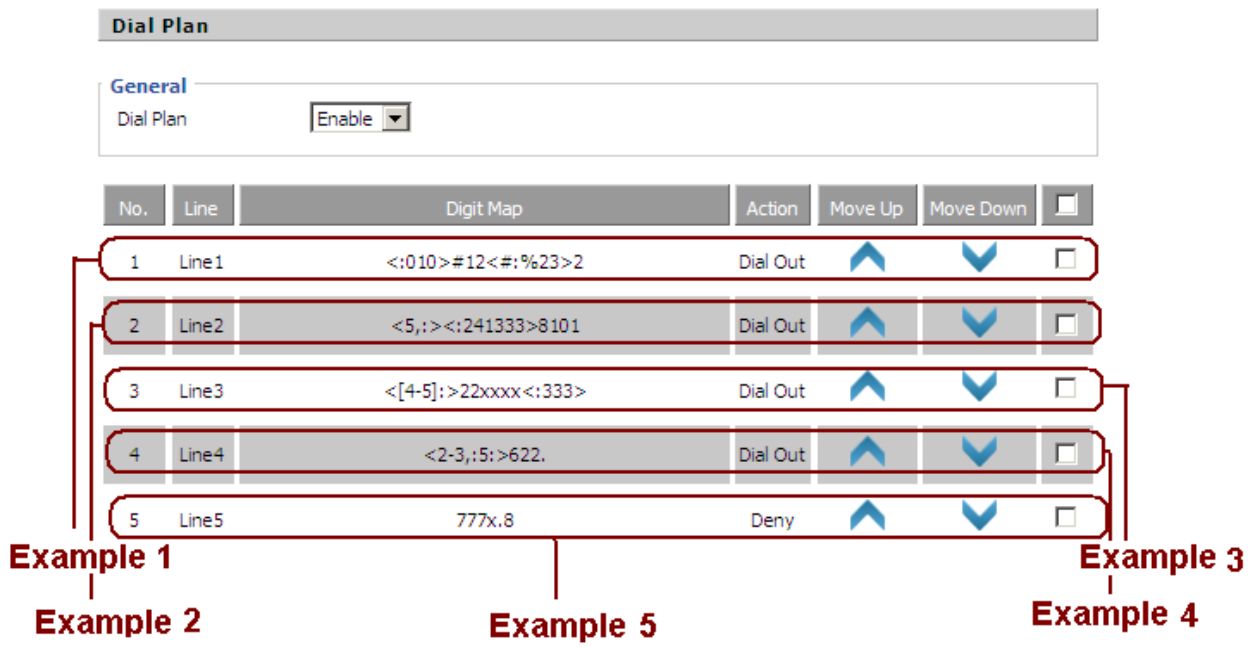
7	T	Set the delayed time. For example: "<9:111>T2": IP652 will dial out the matched number "111" after 2 seconds.

8.7.3.3 Example



1. Example 1

If user dials **#12#2**, G801 will call **010#12%232** immediately.

2. Example 2

If user dials **5,8101,** G801 will call **2413338101** immediately, And G801 will make outside dial tone after inputting "5", stop tone until inputting "8".

3. Example 3

If user dials **422xxxx** or **522xxxx,** G801 will call **22xxxx333** immediately.

4. Example 4

If user dials **2,622** or **2,6222** or **2,62222,** G801 will call **5622** or **56222** or **562222**immediately.

And G801 will make outside dial tone after inputting "2" or "3", stop tone until inputting "6".

5. Example 5

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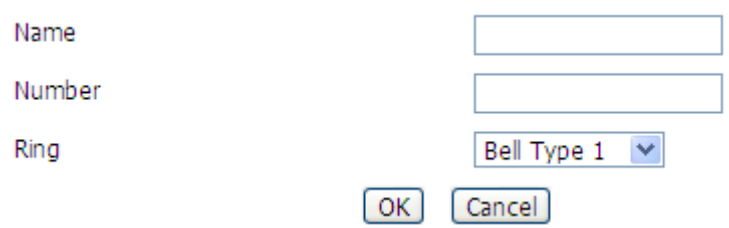
	If user dials**777xx…x8,** G801 will reject the phone number out.

8.7.4 Phone Book

Webpage	Field Name	Description
 Picture 1	Name	Input the name
	Number	Input the phone number
	Ring	Choose Bell Type for phonebook items

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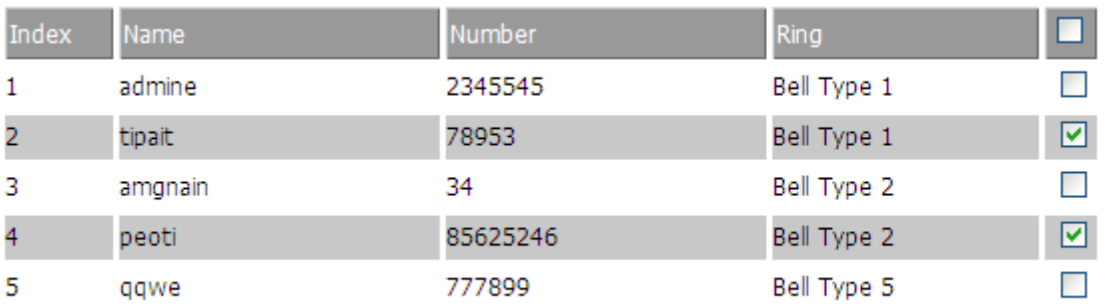

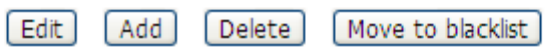

Picture 2

Steps :

Adding one phone book:

Step 1. Click **Add** button, and the configuration table like Picture 1 will appear

Step 2. Fill in the value of parameters.

Step 3. Press **OK** button to end configuration.

Step 4. Press **Save Settings** button to save changes.

Editing one phone book:

Step 1. Choose one phone book

Step 2. Click **Edit** button, and the configuration table like Picture 3 will appear

Step 3. Change the value of parameters.

Step 4. Press **OK** button to end configuration.

Step 5. Press **Save Settings** button to save changes.

Deleting one phone book:

Step 1. Choose one phone book

Step 2. Click **Delete** button to delete the phone book

Move one phone book to Black list:

Step 1. Choose one phone book

Step 2. Click **Move to blacklist** button to delete the phone book

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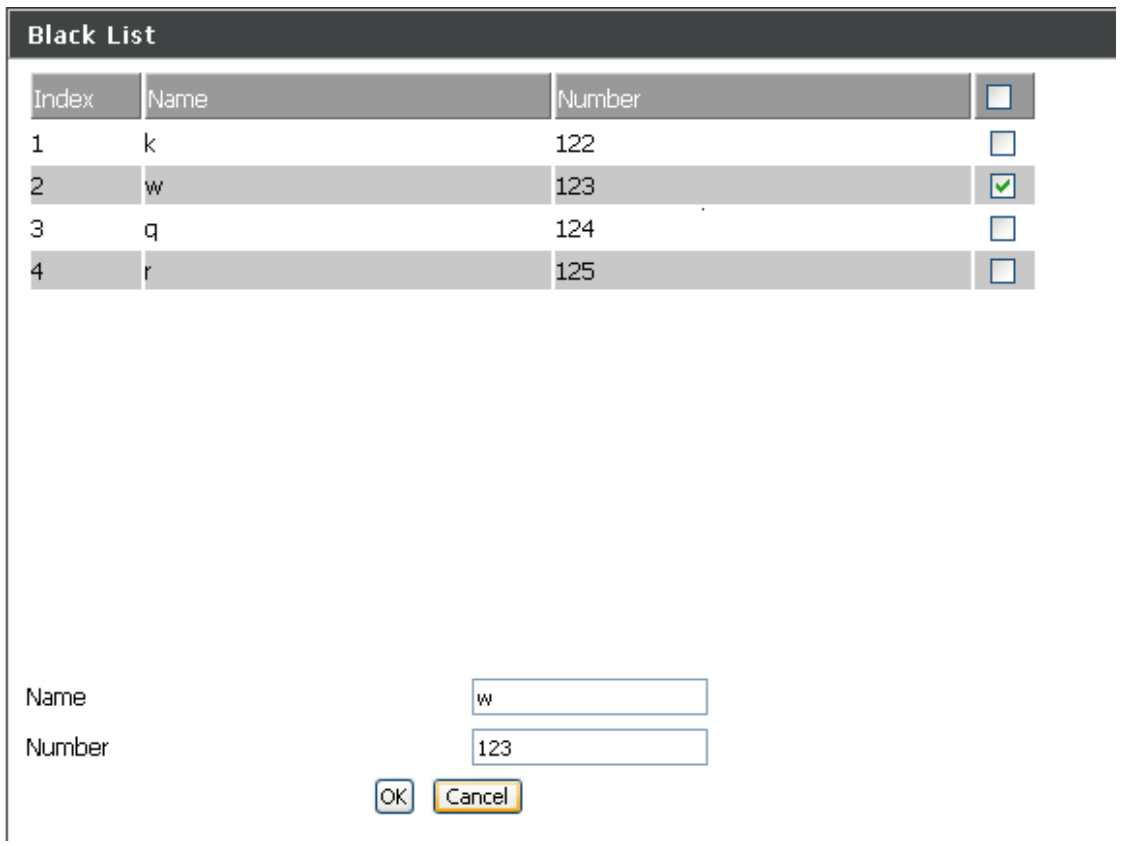
8.7.4.1 Black List

<table>
<tr><th>Webpage</th><th>Field Name</th><th>Description</th></tr>
<tr><td rowspan="2">

Picture 1</td><td>Name</td><td>Input the name</td></tr>
<tr><td>Number</td><td>Input the phone number</td></tr>
<tr><td> 

Picture 2</td><td colspan="2">Steps :

Adding one Black List:

Step 1. Click Add button, then the configuration table like Picture 1 will appear

Step 2. Fill in the value of parameters.

Step 3. Press OK button to end configuration.

Step 4. Press Save Settings button to save changes.

Editing one Black List:

Step 1. Choose one black list

Step 2. Click Edit button, and the configuration table like Picture 2 will appear

Step 3. Change the value of parameters.

Step 4. Press OK button to end configuration.</td></tr>
</table>

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Picture 3

Step 5. Press **Save Settings** button to save changes.

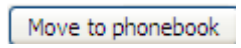
Deleting one Black List:

Step 1. Choose one black list

Step 2. Click **Delete** button to delete the black list

Moving one Black List to phonebook:

Step 1. Choose one black list

Step 2. Click 

button to move the black list to the phonebook

8.7.5 Call Log

To view the call log information such as redial list (incoming call), answered call and missed call.

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8.7.5.1 Redial List

Redial List

Index	Name	Number	Start Time	Duration
1	111	111	04/19 10:51	00:00:01
2	6526	6526	04/18 12:14	00:00:04
3	6	6	04/18 12:14	00:00:00
4	6527	6527	01/01 00:03	00:00:04
5	6526	6526	04/18 12:07	00:00:05
6	6526	6526	01/01 00:03	00:00:05
7	6526	6526	04/18 12:01	00:00:06
8	111	111	04/18 12:01	00:00:01
9	6526	6526	04/18 12:00	00:00:01
10	6	6	04/18 12:00	00:00:01
11	6526	6526	04/18 12:00	00:00:01
12	6526	6526	04/18 12:00	00:00:01
13	010	010	04/18 11:01	00:00:02

8.7.5.2 Answered Calls

Answered Calls

Index	Name	Number	Start Time	Duration
1	222	222	04/19 12:29	00:00:18
2	111	111	04/19 12:20	00:00:39
3	222	222	04/19 12:19	00:00:12
4	222	222	04/19 12:17	00:00:08
5	111	111	04/19 11:55	00:04:00
6	111	111	04/19 11:52	00:02:59
7	111	111	04/19 11:11	00:01:01
8	111	111	04/19 10:52	00:00:18
9	111	111	04/19 10:52	00:00:05
10	111	111	04/19 10:51	00:00:20
11	6526	6526	04/18 12:14	00:00:04
12	6526	6526	04/18 12:07	00:00:06
13	6526	6526	04/18 12:00	00:00:06

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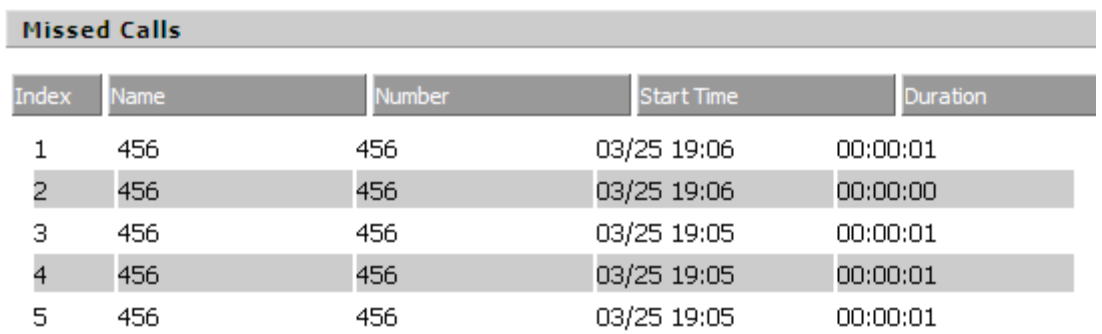
8.7.5.3 Missed Call

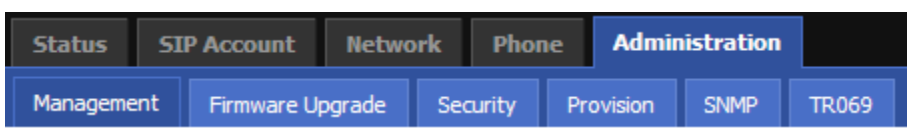


Missed Calls

Index	Name	Number	Start Time	Duration
1	456	456	03/25 19:06	00:00:01
2	456	456	03/25 19:06	00:00:00
3	456	456	03/25 19:05	00:00:01
4	456	456	03/25 19:05	00:00:01
5	456	456	03/25 19:05	00:00:01

8.8 Administration

Use can manage the IP652 in these six webpage; you can configuration the Time/Date, password, web access, system log and so on.



8.8.1 Management

You can configuration the value of Time/Date, password, web access, and system log and so on.

8.8.1.1 Time/Date

Webpage	Field Name	Description
	NTP Server	Fill in the NTP server IP address or Domain name
	Time Zone	Choose the time zone
	Manual Time	Adjust time by manual
	Alarm Enable	If or not enable alarm
	Alarm Time	Set alarm time
	Daylight Saving Time	If or not enable daylight saving time.
	Offset	Offset time, “-60” means advancing 60miniter, “60” means delaying 60minite
	Start Month	Choose starting month

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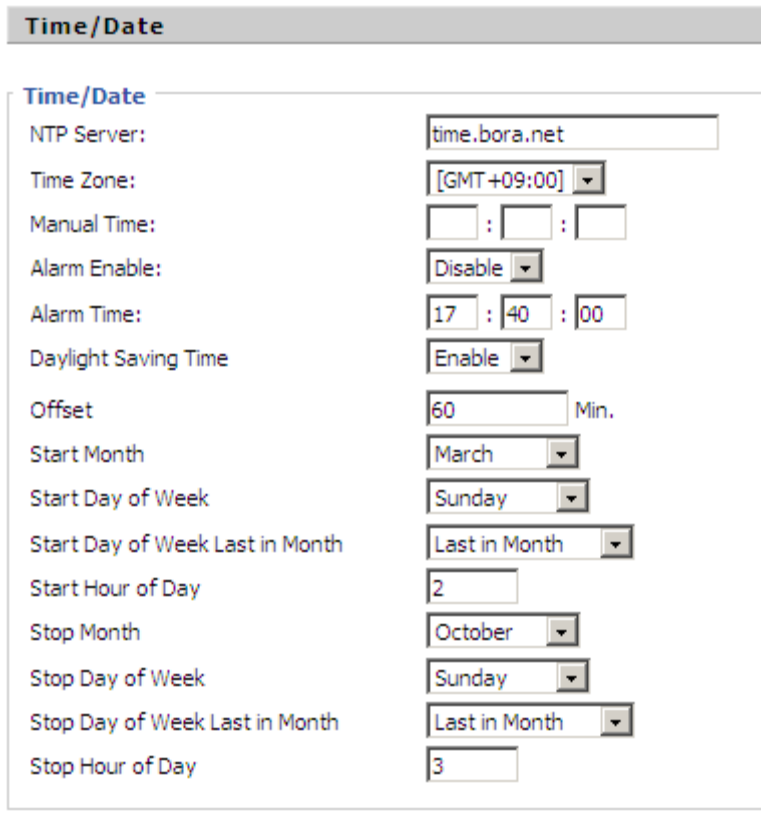
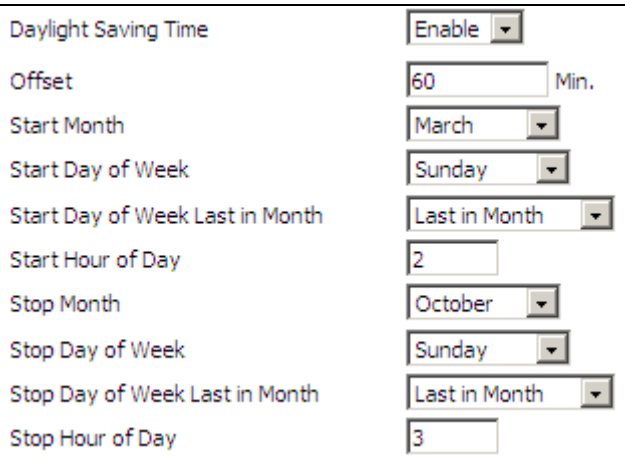


Start Day of Week	Choose starting day
Start Day of Week Last in Month	Choose starting week
Start Hour of Day	Choose starting hour
Stop Month	Choose stopping month
Stop Day of Week	Choose stopping day
Stop Day of Week Last in Month	Choose stopping week
Stop Hour of Day	Choose stopping the function hour

Picture 1



Picture 2

Steps:

Alarm:

Step 1. Enable alarm

Step 2.Set alarm time, like Picture 1.

Step 3. Press **Save Settings** button to save changes and then press **Reboot** button to active changes.

Daylight Saving Time:

Step 1. Enable Daylight Saving Time.

Step 2. Set value of offset, like Picture 2

Step 3: Set staring Month/Week/Day/Hour in **Start Month/Start Day of**

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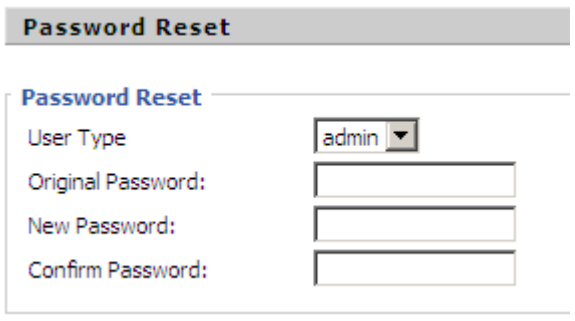
	Week Last in Month/Start Day of Week/Start Hour of Day, analogously set stopping Month/Week/Day/Hour in **Stop Month/Stop Day of Week Last in Month/Stop Day of Week/Stop Hour of Day**. Step 5.Press **Saving Settings** button to save and press **Reboot** button to active changes.

8.8.1.2 Password Reset

Webpage	Field Name	Description
	User Type	Choose the user type from admin and user.
	Original Password	Input original password
	New Password	Input the new password
	Password Confirm	Input the new password again
	Change the password of admin mode: **Steps:** Step 1. Choose the admin from the drop-down list. Step 2. Input original password, default setting is null. Step 3. Input a new password twice time in **New Password** and **Confirm Password**. **Change the password of user mode:** Step 1. Choose the user from the drop-down list. Step 2. Input original password, default setting is null.	

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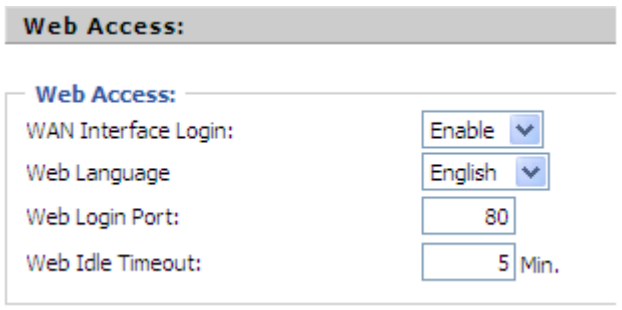
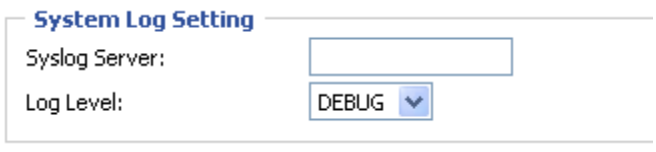
	Note: In admin mode, you can change the user password directly without the password of user mode. Step 3. Input a new password twice time in **New Password** and **Confirm Password**.

8.8.1.3 Web Access

Webpage	Field Name	Description
	WAN Interface Login	If or not enable user login WEB via Internet port. If enable, user can access Web to administration.
	Web Language	Choose from English and Russian. The language setting will be effective in both Web and LCD.
	Web Login Port	Set the port which used to login WEB via Internet port and PC port, Default is 80, that is why URL should include 80.
	Web Idle Timeout	Set the web idle timeout time. The web page can be logged out after **Web Idle Timeout** without any operation.

8.8.1.4 System Log Setting

Webpage	Field Name	Description
 Picture 1	SysLog Server	Set the SysLog Server IP address or domain name for IP652.
	Log Level	Choose log level from None/Error/Warn/INFO/Debug. The priority changes from left to right, left is the lowest, right is the highest; the higher priority, the more information in syslog.
	IP652 support local and remote Syslog. **In local:**	

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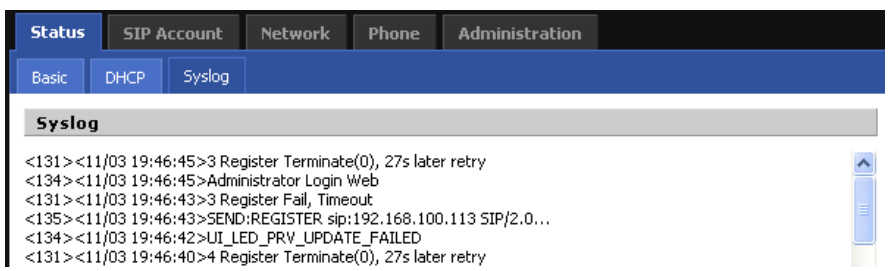
Picture 2



Picture 3

Step 1. Set **syslog server** null and choose one kind of **Log Level**.

Step 2. Press **Saving Settings** button to save and press **Reboot** button to active changes.

Step 3. User can view syslog in **Status/Syslog** webpage.

In remote:

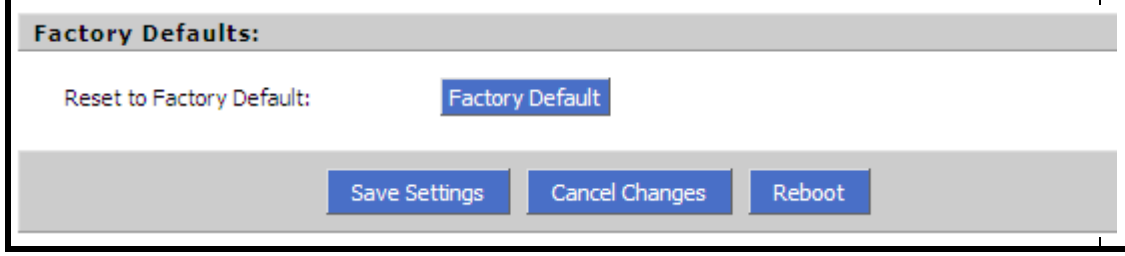
Step 1. Fill in **syslog server** IP address or domain name

Step 2. Choose one kind of **Log Level**, like Picture 2.

Step 3. Press **Saving Settings** button to save and press **Reboot** button to active changes.

Step 4. User can view syslog in syslog server, and you can also view the syslog in **Status/Syslog** webpage.

8.8.1.5 Factory Defaults

Webpage	Field Name	Description
		Press **Factory Default** button to set IP652 default. The basic default settings please refers to session **8.1.**

8.8.2 Firmware Upgrade

Webpage	Description

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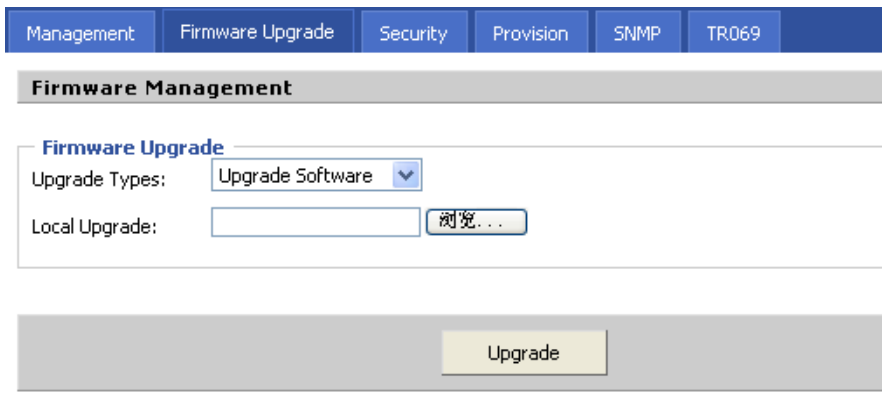


Steps:

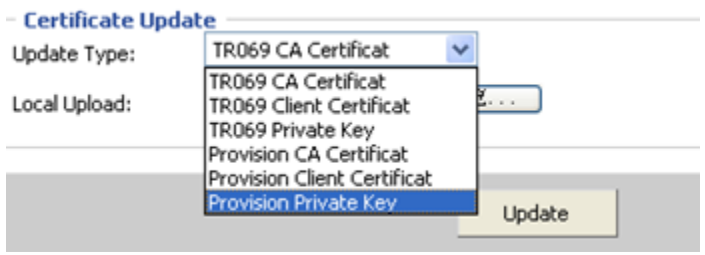
Step 1. Choose a upgrade file type from Upgrade Software, Upgrade Ring Voice, Upgrade Dial Plan and Upgrade Config File

Step 2. Press browser to browser the upgrade file.

Step 3. Press Update to start upgrading, LCD will display the notice when upgrading.

Step 4. Login web and then check the firmware whether well upgraded by viewing the firmware version in Status/Basic webpage.

8.8.3 Security

Webpage	Field Name	Description
	TR069 CA Certificate	The CA certificate file of TR069
	TR069 Client Certificate	The Client Certificate file of TR069
	TR069 Private Key	The Private Key file of TR069
	Provision CA Certificate	The CA certificate file of provision
	Provision Client Certificate	The Client Certificate file of provision
	Provision Private Key	The Private Key file of provision

Picture 1

User can upload cert files for TR069 and Provision as follows:

Step 1. Choose one File Type from TR069 Private ke, like picture 1.

Step 2. Press browser to browser file.

Step 3. Press Update to start upgrading.

Picture 2 is the webpage which all files have well uploaded.

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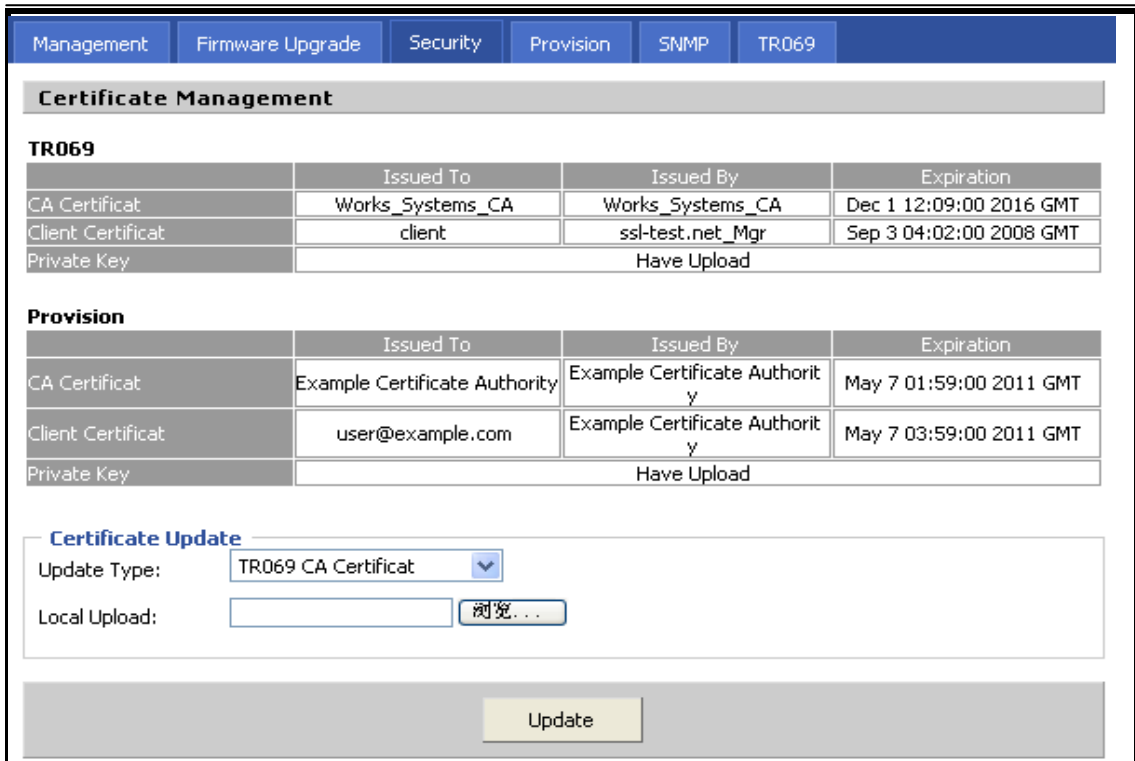

Picture 2

8.8.4 Provision

1) Provisioning allow IP652 auto-upgrading or auto-configuring

2) IP652 supports 3 ways to provision: TFTP, HTTP and HTTPS.

- Before testing or using TFTP, user should have tftp server and upgrading file and configuring file.
- Before testing or using HTTP, user should have http server and upgrading file and configuring file.
- Before testing or using HTTPS, user should have https server and upgrading file and configuring file and CA Certificate file(should same as https server's) and Client Certificate file and Private key file

3) User can uploading CA Certificate file and Client Certificate file and Private Key file in Equipment Manage/Cert Manage page.

4) Details please refer to document Provision_User Manual_en_v1.1.doc

Webpage	Field Name	Description
	Provision	If or not enable provision

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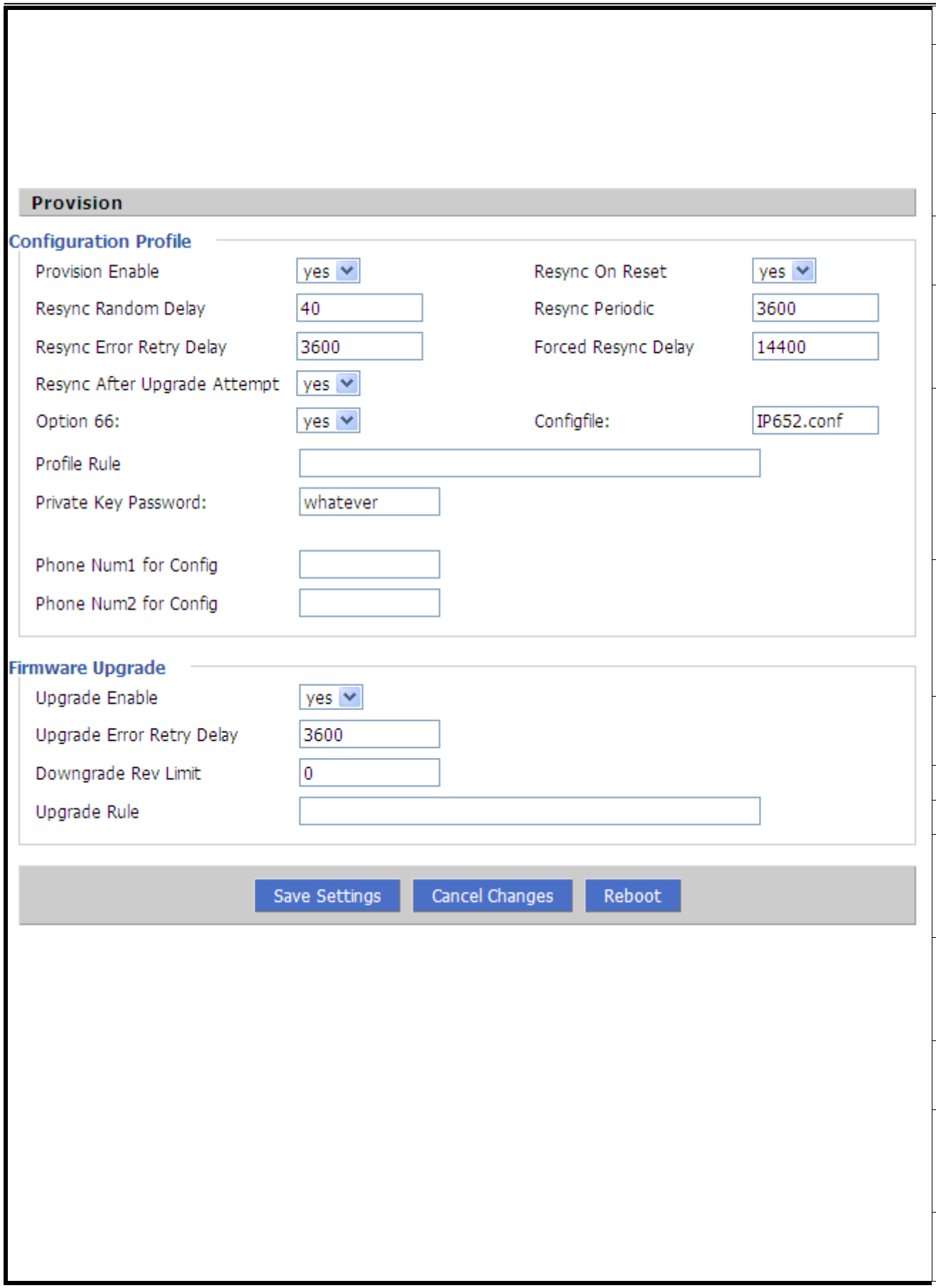

Enabled	
Resync On Reset	If or not enable resync after IP652 restart
Resync Random Delay	Set the maximum delay for request the synchronization file
Resync Periodic	Set the periodic time for resync, default is 3600s
Resync Error Retry Delay	If the last resync was failure, IP652 will retry resync after the “Resync Error Retry Delay” time, default is 3600s
Forced Resync Delay	If it’s time to resync, but IP652 is busying now, in this case, IP652 will wait for a period time, the longest is “Forced Resync Delay” , default is 14400s, when the time over, IP652 will forced to resync
Resync After Upgrade Attempt	If or not enable firmware upgrade after resync, “yes” is enable
Option66	If or not allow DHCP Option 66 to override server
Configfile	Configuration file for option66
Profile Rule	URL of profile provision file
Phone Num1 for Config	The first phone number which used to reboot IP652 in remote.
Phone Num2 for Config	The second phone number which used to reboot IP652 in remote.
Upgrade Enabled	If or not enable firmware upgrade.
Upgrade Error Retry Delay	Set the time to retry upgrade, effective when the last upgrade was failure
Downgrade Rev Limit	Enforces a lower limit on the acceptable version number during a firmware upgrade

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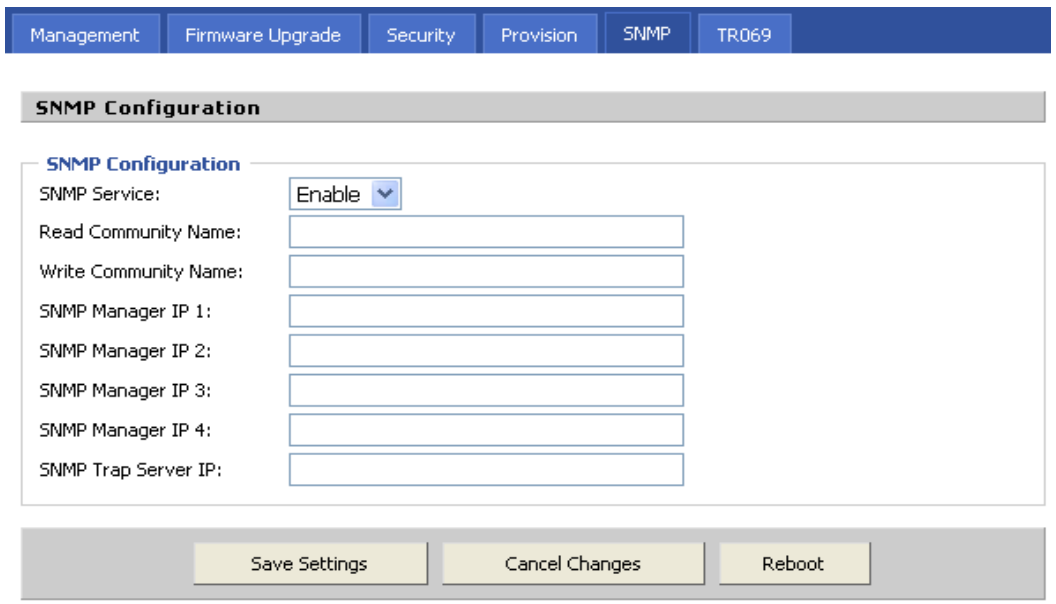
		or down
	Upgrade Rule	URL of upgrade file

8.8.5 SNMP

Webpage	Field Name	Description
	SNMP Enable	If or not enable SNMP
	Get Community	String, as an express password between management process and the agent process
	Set Community	String, as an express password between management process and the agent process
	SNMP Manager IP 1-4	The IP address of SNMP Manager

8.8.6 TR069

Webpage	Field Name	Description
	TR069 Enable	If or not enable TR069
	CWMP	If or not enable TR069
	ACS URL	The URL of TR069 server
	User Name	The IP652's user name for connecting to TR069 server
	Password	The IP652's password for connecting to TR069 server
	Periodic Inform Enable	If or not enable periodic information
	Periodic Inform Interval	The interval to send information to TR069 server
	User Name	The TR069 server's user name for

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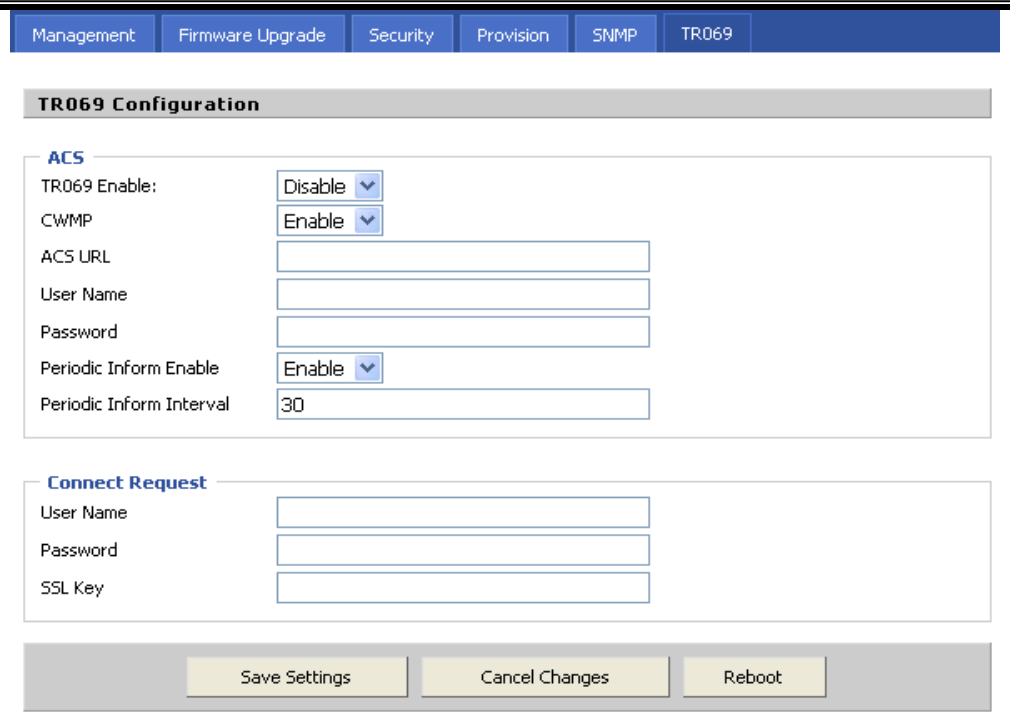

	connecting to IP652
Password	The TR069 server's password for connecting to IP652
SSL Key	Fill in SSL key.

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9 Trouble Shooting

This section provides solutions to problems that can occur during the installation and operation of the IP phone. Read the following descriptions if you are having problems.

9.1 No Operation after Power On

Solution:

Check if the power adapter is properly connected.

If applicable, check if the PoE (Power over Ethernet) switch behind the IP phone is set correctly.

9.2 No Dial Tone

Solution:

Check if the handset cord is properly connected.

9.3 Can not Make a Call

Solution:

Check the status of your SIP registration status or contact your administrator, supplier, or ITSP for more information or assistance.

9.4 Can not Receive Any Phone Call

Solution:

Check the status of your SIP registration status, or contact your administrator, supplier, or ITSP for more information or assistance.

9.5 No Voice during an Active Call

Solution:

Check if the servers support the current audio codec type, or contact your administrator, supplier, or ITSP for more information or

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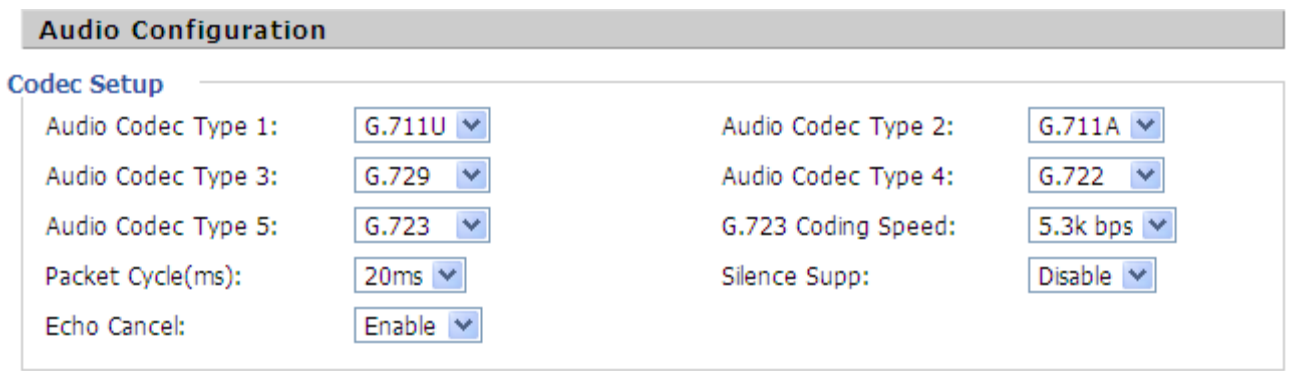
assistance.



9.6 Can not connect to the configuration Website

Solution:

Check if the Ethernet cable is properly connected.

Check if the URL is right wrote, the format of URL is: **http:// the Internet port IP address: 80, 80** must be added.

Check if your firewall/NAT settings are correct.

Check if the version of IE is IE8, or use other browser such as Firefox or Mozilla, or contact your administrator, supplier, or ITSP for more information or assistance.

9.7 Forget the Password

Default password of website and menu is null.

If user changed the password and then forgot, you can not access to the configuration website or the menu items which need password.

Solution:

Factory default: press **Menu** button and choose **16Factory Default**, then a notice will appear, choose OK by using the corresponding softkey button.

If you choose factory default, you will return the phone to the original factory settings and will erase ALL current settings, including the directory and call logs.

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