

# **SP-R50P IP Phone User Manual**

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# 1. Overview

# **1.1. Introduction**



The Akuvox SP-R50P is a featured one-line IP phone with full duplex hands-free speakerphone. It can be directly connected to an Internet Telephony Service Provider or to an IP PBX.

Based on the SIP standard, the Akuvox SP-R50P has been tested to ensure comprehensive interoperability with equipments from VoIP infrastructure leaders enabling service providers to quickly roll-out competitive, feature rich services to their customers.

Akuvox SP-R50P is very easy to understand, configure, and deploy. The web interface is designed to provide a clean and user-friendly configuration window.

# 1.2. Features

## > Highlights

- HD Voice
- 2.6" 132x64 Graphical LCD with Backlight
- Support 3-way Conference
- Support PoE
- Full Compatible with Asterisk, BroadSoft Platform

## Phone Features

- 2 Line (support 2 SIP account)
- Support Call waiting, Call Forwarding, Call Transfer
- Call on hold, Mute, Auto-answer, Redial, DND
- Local 3-Way Conference
- Volume Adjustable, Ring tones Selectable
- Speed Dial, Hotline
- Daylight Saving Time
- Network Packet Capture
- Country Ringtone Signal
- Direct IP call
- Auto redial, Call Return
- XML Browser
- Hot Desking
- Keypad Lock
- Action URL/URI
- Phonebook (500 groups), Blacklist (100 groups), call logs (100 entries)
- 5 Remote Phone Book URL supported
- LDAP
- Multi-Language Support
- Multicast listening
- IP-PBX Features
  - SMS, Voicemail, MWI Message Notification
  - Music on hold, Intercome
  - Call Pickup, Group Call Pickup

## Akuvox SP-R50P

- Anonymous Call, Anonymous Call Rejection
- Network Features
  - SIP V1(RFC2543), V2(RFC3261)
  - Static IP/DHCP for IP configuration
  - 3 DTMF modes: In-Band, RFC2833, SIP INFO
  - HTTP/HTTPS Web Server for Management
  - NTP for Auto Time Setting
  - TFTP/FTP/HTTP/HTTPS Protocols

## Administration Features

- Auto provisioning using FTP/TFTP/HTTP/HTTPS/PnP
- Dial through IP PBX Using Phone Number
- Dial through IP PBX Using URL Address
- Configuration Managements with Web, keypad on the phone, and Auto Provisioning
- SNMP
- TR069

## Security Features

- Support HTTPS (SSL)
- Support SRTP for Voice Data Encryption
- Support Login for Administration
- SIP Over TLS

# 1.3. Keypad

Keypad, LED, and function key definitions



Keypad Description

Кеу	Key name	Function Description
	Navigation	Assists you in selecting an item that you want to process
		under the menu by pressing the Up, Down, Right or Left
		key. Press the OK key to save.
	Soft Keys 1/2/	Key combination includes functions such as
	3/4	History/Favorites/Redial/CallReturn/HotDesking/ XML
		Browser/DND/Menu/MSG/Status/Book/FWD/PickUp/Gr
		oup PickUp/Intercom/Speed Dial/and so on.
	Hold	Hold the current call
	Line 1	For Account 1

<u>Akuvox SP-I</u>	R50P	Overview
	Line 2	For Account 2
	Headset	Use the headset to call out or call in
	Redial	View the Missed Calls, Incoming Calls and Dialed Calls.
	Mute	Press this key in calling mode and you can hear the other
		side, but the other side cannot hear you.
- +	Volume -/+	Turn down or turn up the volume by pressing the "-" key
		or the "+" key.
	Hand-free	Make the phone into hand-free mode.
	Digital	Inputting the phone number or DTMF.
4 GHT) 5 JR. 9 6 MRO 7 MRS 8 TUY 9 MRY *. 0 J #3610	keyboard	
U	Indicator light	Blinking light indicates there is an incoming call.

Rear view and panel descriptions



Port	
$\odot$	
Ś	

Port name	Description
Power switch	Input: 5V DC 1A
Internet	10/100M Connect it to Network
PC	10/100M Connect it to PC
Handset	Port type: RJ-9 connector
Headset	Port type: RJ-9 connector



	Port

# 1.4. Icons introduction

Register success

Register failure

Registering

Deactivated account

Auto answer

No disturb

Always Forward

Network disconnectic

Ring off

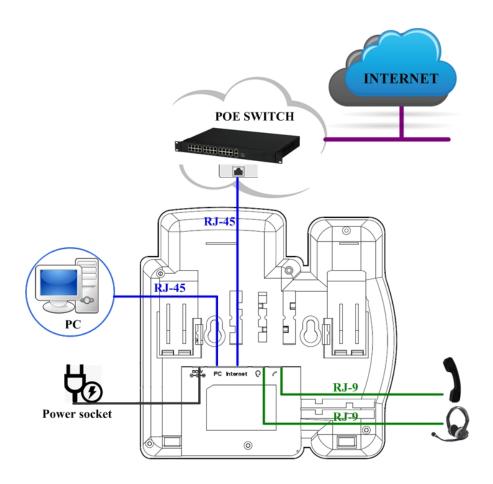
# 2. Installation

# 2.1. Check package contents

Please refer to the package list below to check the completeness of package

Name	Quantity
SIP IP Phone unit	1
handset	1
RJ-9 Cable	1
Power Adapter	1
RJ-45 Cable	1
Stand	1
Quick installation guide	1

# 2.2. Connection diagram



# **2.3. Installation Steps**

Step 1 – Connect to the power

Connect the provided power adapter to the Power port and plug the adapter into an available power outlet. The LCD will display "Initializing, Please Wait..."

-----

**Note1**: Never use a power adapter other than the one provided with Akuvox SP-R50P **Note2**: Only Internet port supports POE.

\_\_\_\_\_

Step 2 – Connect to the Internet

Connect one end of the RJ-45 Ethernet cable to the Internet port at the back of the Akuvox SP-R50P and the other end to wall network jack.

Step 3 – Connect the computer

Connect one end of the RJ-45 Ethernet cable to the PC port at the back of the Akuvox SP-R50P and the other end to the Ethernet port on your computer.

Step 4 – Configure the device

Launch the web browser on your computer, and enter the IP address of the phone into the address bar. The login screen will appear if the address is correct. Enter the user name and password to log into the web console.

**NOTE**: Each phone has its own IP address, you can check it by press the OK key on the keyboard when the phone is idle

# **3.**Functions

# 3.1. Make a call

## 3.1.1. Call devices

User can make a phone call via the following methods:

- 1. Pick up the handset, Cicon will be shown on the idle screen.
- 2. Press the Hand-free key, icon will be shown on the idle screen.
- 3. Press the Headset key if the headset is connected to the Headset Port in advance.

The **I** icon will be shown on the idle screen.

4. User can also dial the number first, and then choose the method user will use to speak to the other party.

## 3.1.2. Call Methods

User can press an available line key if there is more than one account, then

- 1. Dial the number User wants to call.
- 2. Press History softkey. Use the navigation keys to highlight User choice (press Left/Right key to choose Missed Calls, Incoming Calls and Outgoing Calls).
- 3. Press the Redial key twice to call the last number called or press Redial key to enter All Calls interface to choose the number to dial out.
- 4. Press the programmable keys which are set as speed dial key. Then press the speed dial programmable key to make the call if necessary.

## 3.2. Answer a call

- If User is not on another phone call, lift the handset to use, or press the Speaker key/Answer softkey to answer using the speaker phone, or press the headset key to answer the headset.
- If User is on another phone call, press the answer softkey to answer new incoming and hold the current talking. During the conversation, User can alternate between Headset, Handset and Hand-free by pressing the corresponding keys.

Note: The will flash during the Incoming interface.

### 3.3. Mute

You can press the Mute key  $\longrightarrow$  to make the user not be heard by the other party, but User can hear the other party. Icon will be shown on the LCD, and press the Mute key again to recover.

# 3.4. Call Hold/Resume

- 1. Press the Hold softkey or Hold key 💭 to put User active call on hold.
- 2. If there is only one call on hold, press the hold softkey to retrieve the call.
- 3. If there is more than one call on hold, press the line button, and the Up/Down button to select the call, and then press the Resume button to retrieve the call.

# 3.5. Do Not Disturbed (DND)

If you enable DND mode, the phone will reject to answer all calls automatically and play busy tone, the UI will present missed calls at the same time.

0	<b>6:58:</b>	<b>14</b> AM	
0	Frida	<sup>a</sup> y	
History	Book	DND	Menu

To configure Mode: Press Menu->Feature->DND Code->Mode Custom

M	ode Cu:	stom(1/1	)
Mode:			
Phone			$\diamond$
Back		Switch	Save

 Mode Custom: There are two types Phone and Custom. Users can remote setup the status of DND from SIP server in Custom mode. The default mode is Phone that setup from local side.

To configure DND Emergency number: go to Web->Phone->Call Feature->DND.

ND Authorized Number	119	
count	Account 1	$\checkmark$
ND	Enabled	$\sim$
eturn Code When <mark>DN</mark> D	486(Busy Here)	~

DND Emergency: Add one or more emergency numbers in white list. When DND is enabled, these emergency numbers also can be answered.

To configure Mode: Press Menu->Feature->DND Code->DND Code

DND Code(3/4)					DND Code(4/4)			
On Code:				Off Code:				
Back	1aB	Delete	Save		Back	1aB	Delete	Save

- DND On Code: The Code used to turn on DND on server's side, if configured, IP phone will send a SIP message to server to turn on DND on server side if you press DND when DND is off.
- DND Off Code: The Code used to turn off DND on server's side, if configured, IP phone will send a SIP message to server to turn off DND on server side if you press DND when DND is on.

# 3.6. Call Waiting

To configure Call Waiting via Phone interface:

- 1. Press Menu -->Features-->Call Waiting-->Enter;
- 2. Use the Left or Right key to activate or deactivate call waiting;
- 3. Users can also enable r disable call waiting tone for callee.
- 4. Then press the Save key to save the changes.

Call Waiting(1/2)	Call Waiting(2/2)		
Active:	Tone:		
Enable 🔗	Enable 💎		
Back Switch Save	Back Switch Save		

# 3.7. Call Completion

To monitor the status of the other phone and send a prompt when the status changing. For instant, if users make a call and the callee is unavailable to answer the call, the feature will notify the user when the callee is available to receive the call. This function only can be triggered when receiving 486 Busy message. Moreover, if the phone enables the voice message ,the function is also unavailable.

To configure Call completion via Phone interface.

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

2.Use the Left or Right key to enable or disable call completion.

3. Then press the Save key to save the changes.

Call Completion(1/1)						
Call Completion						
Enable	$\diamond$					
Back	Switch Save					

Note: Not all servers can support call completion.

## 3.8. Call Forward

You can set the static forward to transfer all the incoming calls to specified number; Also you can use dynamic forward to transfer all the incoming calls forward to the number inputted when the phone is ringing.

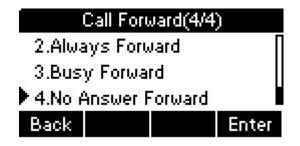
- Forward: Enable call forward feature, Options as follows: Mode Custom: There are two types Phone and Custom. Users can setup forward function for one account if you select Custom mode. Phone mode is for all account.
- Always forward: All the incoming calls will be transferred unconditionally to specified number.
- Busy Forward: The incoming calls will be transferred to specified number when

the phone is busy.

 No answer Forward: The incoming calls will be transferred to the specified number when the ring tone is time out without answer.

To configure Call Forward via Phone interface:

1. Press Menu -->Features-->Call Forward-->Enter, or just press FWD key to enter Call Forward interface;



2. There are 3 options: Always, Busy, and No Answer;

3. If User chooses one of them, enter the phone number User wants to forward to receiving party. Press Save to save the changes.

# 3.9. Call Transfer

You can use the following two ways to transfer talking to the other party:

- Blind Transfer: Transfer talking directly to the other party without any negotiation.
- Consultation Transfer: Transfer talking to the other person involved after the other person involved answer the incoming and with consultation.

## 3.9.1. Blind Transfer

- 1. Press the Trans softkey during the talking;
- 2. Enter the Trans number interface, and then Input the number you will transfer to;

3. Press the FWD key or the Trans softkey to transfer the hold talking to the number you want to transfer to;

4. Return to the Idle automatically;

**Note:** The UI will display Hold status interface when the number you want to transfer to is not existed.

## 3.9.2. Semi-consultation Transfer

- 1. Press the Trans soft key to enter the number you want to transfer to during the talking. Input the number you want to transfer to.
- 2. Press the OK button on the phone keyboard or the Dial key to make a call.
- 3. The third party is ringing, then press Trans soft key.
- 4. The phone will return to idle automatically.

### 3.9.3. Consultation Transfer

- 1. Press the Trans softkey to enter the number you want to transfer to during the talking; Input the number you want to transfer to;
- 2. Press the OK key on the phone keyboard or the Dial key to make a call;
- 3. Press the Trans softkey to finish transfer after the other person involved answer the incoming and with consultation; You can finish transfer via putting down the handset or press the Cancel softkey to cancel transfer if you currently use handset to make or answer a call.

## 3.10.Conference

You can use the Local conference feature to hold a 3-way conference by pressing the Conference softkey to invite the current talking line and the line on hold to attend the conference.

The Local conference feature of IP phone Akuvox SP-R50P can invite two parties at most to attend conference. The conference type of IP phone Akuvox SP-R50P is Local conference with default.

### 3.10.1. Create Local Conference

- 1. Create talking with first party;
- 2. Press the New softkey to create a new talking;
- 3. Press the Back softkey of dial interface to hold talking with first party;
- 4. Input the number of second party and press the OK key on the phone keyboard or the Dial key or the Send softkey to make a call; When the second party answers your call, inquire whether they want to attend conference;
- 5. Press the Conference softkey to start 3-way conference;
- 6. Press the Split softkey to split to two lines standalone talking, then this two parties talking are under Hold status.
- 7. Press the Resume softkey to resume the current talking;
- 8. Press the Cancel softkey or the ( key to cancel the conference talking and return to Idle

## 3.11.Pickup

You can use pickup to answer other users' incoming call. The IP phone Akuvox SP-R50P supports specified pickup and group pickup.

**Note**: Press the group pickup only to answer line 1 incoming call if there are many lines incoming calls in group.

#### 3.11.1.Specified Pickup

Specified pickup can answer specified user's incoming calls

1. Set specified pickup key via phone interface

PATH: Press Menu-->Features-->Programmable keys-->Soft Keys/Function Keys-->PickUp-->Press Down key to set label/Value--> Save softkey;

2. Use specified pickup feature

When the user of specified pickup number is off or busy, you can press the pickup

key to answer incoming call.

## 3.11.2. Group Pickup

Group pickup can answer group's user incoming calls. Group pickup needs to set group members.

1. Set group pickup via phone interface

PATH: Press Menu-->Features-->Programmable keys-->Function Keys/Function Keys-->Group PickUp -->Press Down key to set label/Value/Account--> Save softkey;

2. Use group pickup feature

When anyone in group receives an incoming call, you can press the group pickup key to answer.

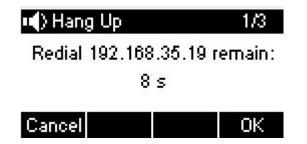
# 3.12.Speed Dial

You can use the Speed Dial feature to dial the specified contact speedily

PATH: Press Menu-->Features-->Programmable keys-->Soft Keys/Function Keys-->Speed Dial -->Press Down key to set label/Value/Account--> Save softkey;

# 3.13.Auto-redial

When hang-up by the other party, call failure during the calling, the phone will enter the auto-redial screen, and begin to count. Press OK for redial now or wait for the time is up. After trying the times of setting of auto-redial, the phone will hang-up automatically.



To configure Auto Redial via Phone interface:

- 1. Press Menu -->Features-->Auto Redial-->Enter;
- 2. Use the Left or Right key to activate or deactivate Auto Redial;
- 3. Use the Up or Down key to configure Interval and Times;
- 4. Then press the Save key to save the changes.

# 3.14.Hot line

The Hot line refers to the number you often dial. You can set hot lines in the phone, the phone will dial the hot line number automatically when you pick up the handset, press the hand-free or the account key. Also you can set the timeout of dialing the hot line number, and then the phone will dial the hot line number automatically after the timeout.

To configure Hot line via Phone interface:

- 1. Press Menu -->Features-->Hot line-->Enter;
- 2. Use the Left or Right key to activate or deactivate Hot line;

Hot Line(1/3)						
Active:						
Enable			$\diamond$			
Back		Switch	Save			

3. Use the Up or Down key to configure Number and Timeout;

Hot Line(2/3)					Hot Line(3/3)		
Number	:			Timeou	t(0-5):		Γ
1162				4			$\leftrightarrow$
Back	1aB	Delete	Save	Back		Switch	Save

4. Then press the Save key to save the changes.

## 3.15.Intercom

To configure Intercom via Phone interface:

PATH: Press Menu-->Features-->Intercom-->Press Switch Soft key to enable this feature -->Press Down key to setup Mute-->Click Save;

- 1. Press the Intercom key when the phone is available. The phone will connect the extension number of remote user automatically;
- 2. Press the Intercom key or the Back softkey to end the intercom;
- 3. Answer the intercom incoming calling;
- 4. In default situation, the IP phone Akuvox SP-R50P will answer the intercom incoming calling automatically and make a noise. You can set the phone to enable silent mode when picking up the intercom call so that the other will not hear you.

The features of intercom:

Intercom Feature	Note
Allow Intercom	Enable or disable Auto-receive inte

## 3.16.HotDesking

In some working place, the people are always walking around. HotDesking feature will make the staffs login his account on any computer in the company. In some public places, the working people is not fixed, anyone can use HotDesking for logging his account, and setting the phones to the familiar mode. Such as the remote function of the computer.

## 3.16.1.Set the HotDesking Key

To configure HotDesking via Phone interface:

PATH: Press Menu-->Features-->Programmable keys-->Soft Keys/Function

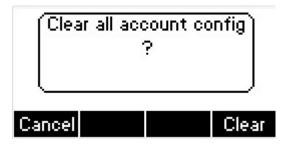
Keys-->HotDesking--> Press Down key to set label--> Save softkey;



# History Book HotD. Menu

## **3.16.2.HotDesking Feature**

- 1. After setting the HotDesking on Soft-key, back to the idle screen;
- 2. Pressing the HotDesking, and enter the HotDesking screen;
- If you press clear on the screen, the phone will begin to clear the information stored on the phone;



- 4. After clear the setting, the phone will enter the account setting screen;
- 5. After entering the account information, back to the home screen, and begin to use the new account.



Account 1(2/5)								
User Name:								
Cancel	123	Delete	Save					
	Account 1(3/5)							
Password:								
Cancel	123	Delete	Save					

## 3.17.XML Browser

XML Browser allows the users to develop and deploy custom services. Users need to predefine a custom service functions on the server, such as news, weather report, stock information. The user receives and displays the service information on the IP phone from the server, and all service information are transmitted in XML object. To configure XML Browser via Phone interface:

PATH: Press Menu-->Features-->Programmable keys-->Soft Keys/Function keys-->XML Browser--> Press Down key to set Label/Value--> Save softkey;

			Soft k				
		Type:					
		XML B	rowser				
		Back		Switch	Save		
	Soft Ke	ey 3(2/3)			Soft Ke	ey 3(3/3)	)
Label:				Value:			Π
contact			ftp://19	2.168.3	5.48		
Back	abc	Delete	Save	Back	1aB	Delete	Save

# 3.18.Keypad Lock

You can lock the keypad of your phone temporarily when you are not using it. This feature helps to protect your phone from unauthorized use.

Keypad Lock can be set to ON or OFF, how long to enable this function during the phone is idle and you can choose to lock the function keys or all keys. And this function can only be configured through the web UI, please refer to the web interface for the details.



- Function Keys: The function keys are locked. You cannot use the SOFT KEYS, NAVIGATION KEYS, FUNCTION KEYS until unlocked.
- All Keys: All keys are locked.

# 3.19.Hoteling

Hoteling function enables the customer to login the own sip account on the Host IP phone, after login to the phone, the customer can use his own guest account on the host IP phone.

**Note**: Hoteling is supported by Broadsoft platform, Please consult your administrator further information.

### **Application:**

1、Remote Work

1.1. User goes to the branch office, his own extension number is 4723 in head office;

1.2. User uses the remote work function, find a idle host IP phone;

1.3. User can login the extension number 4723 on this host IP phone, to call in and out using his own extension number.

2、 Work on different time division

2.1. Users A and B work on different time division at a same table with a same host IP phone, their extension numbers are 4722 and 4723.

2.2. A logins the extension number 4722 in the morning, logout after leave.

2.3. B logins the extension number 4723 in the evening, using the number 4723 to call in and out, logout after leave.



The host IP phone number is 2404984721

Hoteling Login(1/2)	Hoteling Login(2/2)			
User Name:	Password:			
2404984723	*****			
Cancel 123 Delete Enter	Cancel 123 Delete Enter			

Press GuestIn softkey to login the extension number 4723 and password



The extension number 4723 is ready for use

## 3.20. Application

### 3.20.1. Text Message

The IP phone Akuvox SP-R50P can send and answer text message. The phone will make a "Du" sound and present "N piece of new message" on the LCD( For example: 1 new message), and a twinkling message icon will appear.



**Note**: Not all servers support message feature.

#### **Read Text Message**

- 1. Access Menu->Message->Text Message-> In box
- Press the OK key on the phone keyboard or the Enter softkey to enter the Text Message interface, Press the OK key on the phone keyboard or the Enter softkey to enter the in-box interface.
- Select the message you will read and Press the OK key on the phone keyboard or the Enter softkey to read.

### Send Text Message

- 1. In the Idle, press the Menu softkey
- In the mail menu interface, press the Down key on the phone keyboard to select Message, press the OK key on the phone keyboard or the Enter softkey to enter Message interface;
- 3. In the Text Message interface, select "New Message"; Press the OK key on the phone keyboard or the Enter softkey to enter new message and edit it, press the "abc" softkey to switch the input methods;
- 4. Press the OK key on the phone keyboard or the Send softkey to send message;
- 5. Press the Left or Right key on the phone keyboard or the Switch softkey to switch to the relevant addresser;

Send Setting(1/2)					
10/200701 COA					
1017@192.168.10.10 🔅					
Switch Send					

1. Input the number of receiver;

Send Setting(2/2)							
To:			Π				
1015							
Back	123	Delete	Send				

2. Press the Send softkey to send message.

### **Delete Text Message**

- 1. In the Idle, press the Menu softkey;
- Press the main menu interface, Press the Down key on the phone keyboard to select message, Press the OK key on the phone keyboard or the Enter softkey to enter the Message interface;

- In the Text Message interface, press the Down key on the phone keyboard to select in-box;
- 4. Press the OK key on the phone keyboard or the Enter softkey to enter the in-box interface;
- 5. Select the message you want to delete and press the Delete softkey;
- Delete all the text messages in the in-box. Press the Delete softkey and select "Delete All", press the OK softkey then all the messages in the in-box will be deleted.

#### **3.20.2.Voice Message**

The IP phone Akuvox SP-R50P can send or answer voice message. The phone will make a "Du Du" sound, the LED light of message flashes green, and the LCD presents "New Voice Message" on the LCD with a twinkling voice message icon.



Note: Not all servers support voice message.

#### Voice Message

You can leave a message when the user who you call is busy or unavailable. Leave a message according to the voice prompt of server, and then hang up after leaving the message.

Set Visit account number of voice message via phone interface.

- 1. In the Idle, press the Menu softkey;
- In the Idle, press the Down key on the phone keyboard to select message, press the OK key on the phone keyboard or the Enter softkey to enter the Message interface.
- 3. In the Message interface, press the Down key on the phone keyboard to select

the voice message, press the OK key on the phone keyboard or the Enter softkey to enter the Voice Message interface.

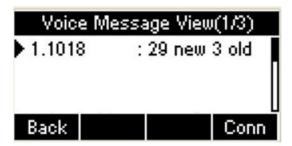
- 4. Select the Voice Message Setting;
- Press the OK key on the phone keyboard or the Enter softkey to set account 1, input the Visit account number of voice message (For example: \*97), press 123 softkey to switch the input methods;

Voice Message Setting(1/3)						
Account1 NO.						
*97						
Deale	100	Dalata	C			
Баск	123	Delete	save			

 Press the OK key on the phone keyboard or the Save softkey to save and return to message interface.

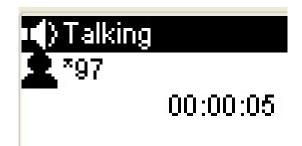
#### Check voice message

- Press the Message key or the Connect softkey to call the Visit account number of voice message.
- 2. Check voice message according to voice prompt.
  - Set the Visit account number of voice message first before check voice message. The LED light of Message will darken after all the voice messages checked.
- 3. Check voice message via phone interface
  - Access Menu-> Message->Voice Message-> New Message. The LCD displays new messages and old messages of every account.



• Select the account you will check and press the Connect softkey to check

voice message



# 4.Settings

# 4.1. Basic Settings

## 4.1.1. Language

You can change the language through below method:

```
Press Menu -> Settings -> Basic Setting -> Language
```



## 4.1.2. Date & Time

The IP phone displays Time and Date in Idle status. You can set the Time and Date obtain from SNTP server automatically or you can set the time and date manually.

## Set SNTP via phone interface:

- Go to the path: Menu -> Settings -> Basic Setting -> Date & Time -> SNTP Setting.
   Press Enter soft key to enter the SNTP interface.
- Press Switch key to modify the local time zone for SNTP server. Input the Primary server you need. The secondary server will take effect while the primary server is invalid. Daylight Saving is Auto by default. Users can also disable it. Press Save soft key to save the settings.

## Akuvox SP-R50P

SNTP Setting(1/4)	SNTP Setting(2/4)	
Time Zone:	Primary Server:	
+1 France(Paris) 🔅	0.pool.ntp.org	
Back Switch Save	Back 1aB Delete Save	
CHITD CANNAR (2014)	SNTP Setting(4/4)	
SNTP Setting(3/4)	SNTP Setting(4/4)	
Secondary Server:	SNTP Setting(4/4) Daylight Saving:	

#### Manual setting:

- Go to the path: Menu -> Settings -> Basic Setting -> Date & Time -> Manual Setting.
- 2. In Data area, users can delete the original data, enter the new date. Users can also modify the correct time .

Time Manual(1/2)	Time Manual(2/2)	
Date(YYYY-MM-DD):	Time(HH:MM:SS):	
2016 - 11 - 18	07 : 32 : 43	
Back 123 Delete Save	Back 123 Delete Save	

#### Format setting:

To set the date & time format via the phone interface, access Menu -> Settings -> Basic Setting -> Date & Time -> Format Setting:

- Access the Time Format in Format Setting interface, then press the Left or Right key on the phone keyboard, or the Switch softkey to select the time format (12Hour or 24Hour).
- In the Date &Time Format interface, press the Up or Down key on the phone keyboard to access the Date Format. Press the Left or Right key on the phone keyboard or the Switch softkey to select the date format to process setting.

Date & Time Format(1/2)	Date & Time Format(2/2)	
Time Format:	Date Format:	
12Hour 🔗	DD-MM-YYYY 🔅	
Back Switch Save	Back Switch Save	

The phone supports four Date formats. The selected date format will appear in the Idle. For example, if the time was "2015-11-18", the date format in the menu and the corresponding formats displayed in the Idle as follows:

Date Format	Example(2015/11/18 Wed)
YYYY-MM-DD	2015-11-18
YYYY/MM/DD	2015/11/18
DD-MM-YYYY	18-11-2015
DD/MM/YYYY	18/11/2015
WW-DD-MM	Wed 18 Nov
WW-MM-DD	Wed Nov 18

### **Display mode setting:**

To setup which mode will show in the main interface. There are 4 modes - Day, Date, Rolling, Disable. Press Switch soft key to change the mode you need.

Date Display Mode(1/1)	
Display	Mode:
Day	$\diamond$
Back	Switch Save

## 4.1.3. Backlight

Set the screen backlight level and duration of backlight

Press Menu -> Settings -> Basic Setting -> Backlight

Backliş	ght Setting(1/2)
Level:	
4	$\diamond$
Back	Switch Save

#### 4.1.4. Password Setting

This function is to setup the Advanced Settings password

- Go to the path: Menu -> Settings -> Advanced Setting ->Password Setting(you need enter the user name:admin , password; admin)
- Input the currently password, the new password, then confirm new password.
   Press Save soft key to save the password.

	Password	Setting(1/3)	
	Current Passw	ord:	
	****		
	Back abc	Delete Save	
Password S	Setting(2/3)	Password	Setting(3/3)
New Password:		Confirm Passu	vord:
****		****	
Back 123	Delete Save	Back 123	Delete Save

## 4.2. Sound Settings

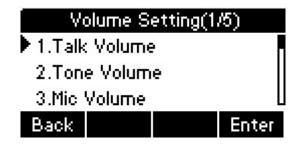
#### 4.2.1. Phone Volume

The Volume key can be used to adjust the volume of handset, hand-free or headset during a call. Also, the key can be used to adjust the ring tones volume in the Idle mode.

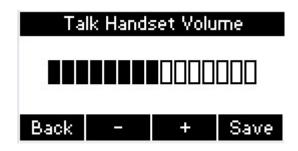
1. Adjust the volume via the phone interface: access Menu -> Settings -> Basic

Setting -> Phone Volume.

2. In the Volume Setting interface, access the Handset Volume, Hand-free Volume or Headset Volume interface, then press the "+" or "-" softkey, or Left or Right key to adjust the volume. Press the Save softkey to save the operation or press the Back softkey to cancel operation.



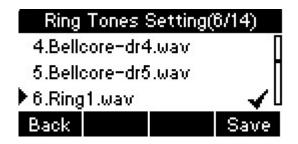
3. User can setup the handset, headset or hand-free volume in different situation. For example, setup the handset talk volume. Enter the Talk Volume interface, choose Handset Volume. Press - or + soft key to adjust. Press Save soft key to save the configuration



#### 4.2.2. Ring Tones

The Ring Tone refers to incoming ring tone, which reminds the user that there is new incoming call. The IP phone Akuvox SP-R50P supports phone ring tone to distinguish the incoming calls from other near phones' ring tone; At the same time, the IP phone Akuvox SP-R50P also supports setting specific incoming ring tone for contacts.

- To set the ring tone via the phone interface, access Menu -> Settings -> Basic Setting -> Ring Tones.
- 2. Press Up or Down key on the keyboard to choose a suitable ring tone. Press Save soft key to save the configuration.



#### 4.3. Phone Book

#### 4.3.1. Local Phone Book

The Local Phone Book is used for storing the contacts names and numbers. The Akuvox SP-R50P can store up to 500 entries contacts. You can add, edit, delete, search, or call any contact from the Local Phone Book.

#### 4.3.1.1.1.Add contacts manually

Add contacts manually from the Local phone book via Phone interface:

- 1. Press Phone book -> Local phone book
- Select the relevant group (For example: Test1) or enter All Contacts. Press the Add softkey to enter the Add Contact interface.



3. Input name in the relevant area.

	idd Cor	ntaot(1/8)	)
Name:			
Ada			
Back	Abc	Delete	Save

4. Press the Down key on the phone keyboard to input the office number in the

relevant area.

Add Contact(2/8)			
OfficeN	lumber:		
2236			
Back	123	Delete	Save

5. Press the Down key on the phone keyboard to input mobile number and other nuber in the relevant area.

Add Contact(3/6)			
MobileNumber:			
15638077			
Back	123	Delete	⊔ Save

6. Press the Down key on the phone keyboard to input other number in the relevant area.

Add Contact(4/8)			
OtherNu	imber:		×
3680			
Back	123	Delete	Save

#### 4.3.1.1.2.ADD contact from All Calls History

Add contact from All Calls History in the phone interface:

- 1. Press the History softkey;
- 2. Press the Up or Down key on the phone keyboard to select the contact you want

to add;

3. Press the Option softkey to add to contacts.

Option(2/4)	
1.Detail	
2.Add to Contacts	
3.Add to Blacklist	U
Cancel	OK

#### 4.3.1.1.3.Search Contacts

- 1. Press the Book softkey in the Idle interface to enter the Phone Book menu.
- Select the Local Phone Book, Press the OK key on the phone keyboard or the Enter softkey to enter the Local Phone Book.
- 3. Press the Search softkey to search contacts.



 Input keywords such as name, any character of number or whole phone number, press the Search softkey or the OK key to enter the Search Contacts interface.
 For example, input "A", press Search soft key . It will show the name which contains A letter in the contact.

Se	arch Co	ntacts(1	/1)
Input K	eyword:	s:	
A			
Back	Abc	Delete	Search
Se	arch Co	ntacts(1	/2)
🕨 1.Ada			- 21
2.Ann			-
Back		Option	Dial

#### 4.3.2. Blacklists

100 Blacklists contacts are available with Akuvox SP-R50P IP phone. You can add, edit, delete, search or call contact. The phone will reject to answer automatically within the blacklists contacts' incoming call.

1.Go to the path: Phone book -> Blacklist -> Add.

2.Enter the corresponding information, press Save soft key to save.

ete Save

3. Or you can choose a exited contact, press Option soft key, choose Move to Blacklist.

Option(3/3)	
1.Detail	Γ
2.Delete	
3.Move to Blacklist	
Cancel	OK

#### 4.3.3. Remote Phone Book

Access the remote phone book, add the contacts to the local phone book from the remote phone book or make calls from the remote phone book. 5 URLs of remote phone book are available to set.

- 1. Set the remote phone book via web interface.
- 2. Access Book-> Remote Phone Book.
- 3. Input URL of phone book.
- 4. Input the phone book name.
- 5. Click the Submit to save.

	Rem	ote Book	
Index	Local Boo	k URL	Local Book Name
1	tftp://192.168.35.48/remote pho	one book.xml	123
2			
3			
4			
5			
	ch Remote Phonebook Name esh Interval	Enabled 3600	✓ (120~2592000s)

Access the remote phone book via phone interface.

- 1. Access Book->Remote phone book.
- Select the relevant Remote Group and press the Enter softkey. The phone will load the remote group information, and the LCD will display the contacts of this remote group.
- 3. Press the **Solution** key or the Back softkey to unlink.
- 4. Press the Book softkey to enter the Phone Book Menu.

Remo	te Group(1/1	)
1.123		
Back	Update	Enter
te	st001(1/3)	
1.0ffice	test001	
2.Mobile		
3.0ther	test001	U
Back		Dial

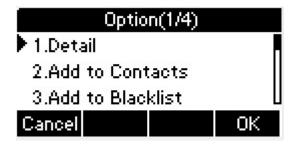
# 4.4. History Management

The History management of IP phone Akuvox SP-R50P contains dialed calls, received calls, missed calls and forwarded calls and supports 100 logs storage at most. You can check the history, make calls from the calls history and delete the calls history.

- 1. Press the History key, the LCD will display all the recent calls;
- Press the Left or Right key on the phone keyboard to switch the lists of All Calls, Dialed Calls, Received Calls, Missed Calls and Forwarded Calls;



- 3. Press the Up or Down key on the phone keyboard to select the log;
- 4. Press the Option softkey and select the detail. The LCD will display the detailed information of this log; Press the Dial softkey, to make a call from the History;
- 5. Press the Option softkey to add to contacts(Move to Blacklists ) from the History;
- 6. Press the Delete softkey to delete calls log from the History;
- Press the Option softkey to select "Delete all" to delete all the calls log from the History



# **4.5. System Customizations**

#### 4.5.1. Programmable keys

- Press the Menu softkey in the Idle interface, access Menu->Features-> Programmable keys;
- 2. Select the programmable key you will set and press the Enter softkey;
- 3. Select key style in the type area;
- 4. Input suitable value in the label area;
- 5. (Optional) Select the relevant account in the account ID area;
- 6. (Optional) Input suitable value in Value blank;
- 7. (Optional) Input suitable value in Extension blank;
- 8. Press the Save softkey to save or the Cancel softkey to cancel.

#### 4.5.2. SIP Account management

#### 4.5.2.1. Register an Account

Register an account via phone interface:

1. Press the Menu softkey to enter setting interface to select Advanced setting, input

password(password: admin) to enter the Account setting;

2. Press Enter key to enter the account activation status area;

3. Input the label, display name, register name, account, password and SIP server address separately;

4. Press the Save softkey to save, or the Back softkey to cancel.

Ac	count 1(1/16)			Accoun	t 1(2/16)	
Active:			Label:			Ē
Enable	$\diamond$		Inn			
		Ц	.)		12 13	L
Back	Switch Save		Back	1aB	Delete	Save

Account 1(3/16)	Account 1(4/16)
Display Name:	Register Name:
Inn	104
Back 1aB Delete Save	Back 1aB Delete Save
Account 1(5/16)	Account 1(6/16)
User Name:	Password:
104	XXX
Back 1aB Delete Save	Back 1aB Delete Save
Account 1(7/16)	Account 1(8/16)
Sip Server 1:	Sip Port 1(1-65535):
192.168.35.254	5060
Back 1aB Delete Save	Back 1aB Delete Save

#### 4.5.2.2. Disable an Account

- 1. Access Menu->Settings->Advanced setting->Account (password: admin).
- 2. Press Enter key to enter the account activation status area.
- 3. Select "Disable" in the account active status area.
- 4. Press the Save softkey to save or the Back softkey to cancel.

# 4.6. Basic Network Settings

Through the Basic Network setting, you can set the IP Phones to get the IP address by

three ways: DHCP, static IP and PPPoE.

PATH: Menu -> Settings -> Advanced Setting -> Network

#### 4.6.1. DHCP Mode

To configure the DHCP mode via phone user interface.

- In IP Phone idle interface, press soft key Menu->Settings->Advanced Setting(default password:admin)->Network->LAN Port.
- 2. Phone user interface shown: DHCP by default

LAN F	Port(1/3)	
1.DHCP		<ul> <li>✓I</li> </ul>
2.Static IP		10000
3.PPPOE		, U
Back		Enter

3. Press soft key Enter or OK button to enter the DHCP setting interface, after obtain

the IP address, it will automatically back to the previous interface

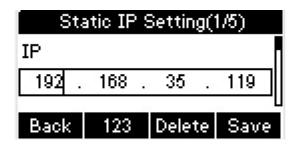
LAN Po	ort(1/3)
Setting dhop, pl	lease wait
Back	

Note: Default DHCP mode after reset to factory.

# 4.6.2.Static IP Mode

To configure the Static IP mode via phone user interface.

- In IP Phone idle interface, press soft key Menu->Settings->Advanced Setting(default password:admin)->Network->LAN Port.
- Press navigation key Down on the phone keypad to select Static IP, then press OK button or soft key Enter to the Static IP Setting interface, input the IP address, Subnet Mask, Gateway, DNS 1 and DNS 2 in the corresponding area, press OK button or soft key Save to save the change.



# 4.6.3.PPPOE Mode

To configure the PPPOE mode via phone user interface.

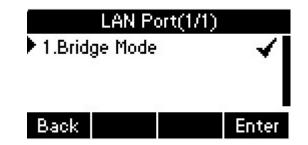
- In IP Phone idle interface, press Menu->Settings->Advanced Setting(default password:admin)->Network->LAN Port.
- Press twice navigation key Down on the phone keypad to select PPPOE, then press OK button or Enter soft key to enter PPPOE Setting interface, input the User Name and Password, press OK button or Save soft key to save the configuration.

Pf	PPOE S	etting(1/	2)	PI	PPOE S	etting(2/	2)
User Na	me:			Passwo	rd:		[
user01				****			
Back	123	Delete	Save	Back	123	Delete	Save

# 4.6.4.Configure PC Port Mode

#### Bridge mode

- In IP Phone idle interface, press Menu->Settings->Advanced Setting(default password:admin)->Network->PC Port.
- 2. In the PC Port configuration interface, press the navigation key Up or Down to select Bridge mode. press OK button or Enter soft key, enter Warning interface prompt "Reboot Phone?"; Press OK soft key to reboot.(PS: Setting will take effect after reboot.If cancel the reboot, the Settings will be saved but not take effect.)



# 4.6.5.Configure VPN

To configure the VPN mode via phone user interface.

- In IP Phone idle interface, press Menu->Settings->Advanced Setting(default password:admin)->Network->VPN.
- 2. Press Enter soft key to enter the VPN Setting interface, press Switch soft key to enbale or disable the VPN status.press Save soft key to save the change. (about more detail information, you can refer to the following web configuration.)

VPN	Setting(1/1)
Active:	
Enable	$\diamond$
Back	Switch Save

3. When configured VPN function success, in the phone idle interface, it will shown

VPN 🖳 icon.

# 4.6.6.Configure VLAN

In the Network Settings interface, press the Up or Down key on the phone keyboard to select VLAN Port, press the OK key on the phone keyboard or the Enter softkey to enter LAN Port configuration interface.

#### LAN Port

- In the VLAN Port interface, press the navigation key Up or Down to select LAN Port, press the OK button or Enter soft key to enter LAN Port.
- 2. In the LAN Port interface, press the navigation key Up or Down to configure the functionality Enable, VID, Priority.press OK button or Save soft key.it will pop up a prompt "Setup completed! Restart to take effect?",press OK button or OK soft key to reboot.

	LAN Po	ort(1/3)			LAN P	ort(2/3)	
Active:				VID(1-	4094):		
Enable			$\langle \rangle$	24			
			L				L
Back		Switch	Save	Back	123	Delete	Save

	LAN Po	ort(3/3)	
Priority	:		Γ
0			$\leftrightarrow$
Back		Switch	Save

#### PC Port

- In the VLAN Port interface, press the navigation key Up or Down to select PC Port, press the OK button or the soft key Enter to enter PC Port.
- In the PC Port interface, press the Up or Down key on the phone keyboard to configure the functionality Enable, VID, Priority.press OK button or soft key Save.it will pop up a prompt "Setup completed! Restart to take effect ?",press OK button or soft key OK to reboot.

PC Port(1	/3)		PC P	ort(2/3)	
Active:	I	VID(1-4	4094):		
Enable	$\diamond$	23			
	L				
Back Swi	tch Save	Back	123	Delete	Save

	PC Po	rt(3/3)	
Priority:			
0			$\leftrightarrow$
Back		Switch	Save

## 4.7. WebServer

In the Advanced Setting interface, press the Up or Down key on the phone keyboard to select "WebServer," press OK key on the phone keyboard or the Enter softkey to access the disable/enable WebServer settings.

## 4.8. Reset to Factory

In the Advanced Setting interface, press the Up or Down key on the phone keyboard to select "Reset to factory", Press the OK key on the phone keyboard or the Enter softkey to access the reset to factory interface.



# 4.9. Password setting

User can modify the password, go to the path: Advanced->Setting.(Default password :admin.)

 In IP Phone idle interface, press Menu->Settings->Advanced Setting(default password:admin)->Password Setting.  Enter the Current Password, New Password, Confirm Password. Press OK button or Save soft key to save the change.

## 4.10. Autoprovision

To configure the Autoprovision via phone user interface.

- In IP Phone idle interface, press Menu->Settings->Advanced Setting(default password:admin)->Autoprovision.
- Enter the URL, User Name, Password to update the configuration, also user can modify the provision mode and time.press OK button or Save soft key the change.

## 4.11.Reboot

This is a function to set the phone reboot.

1. In the Advanced Setting interface, press the Up or Down key on the phone keyboard to select Reboot;

2. Press the OK key or the Enter softkey to on the phone keyboard to enter the reboot warning interface.

# 5. WEB Interface

Web user interface (we will used Web UI for short in the following context) which is used for user or administrator to check or change the IP SIP phone's settings.

- Press the OK key on the phone keyboard to check the Phone's IP address.
- Type the IP address on IE, input default User Name and Password: admin/admin to login the web interface.

Login User Name Password Remember Username/Password Login	Aku	VOX	
Password Remember Username/Password		Login	

#### 5.1. Status->Basic

Go to Status->Basic Page as shown below:

Status	Status	
Basic	Pr	oduct Information
Account	Model	SP-R50
	MAC Address	0C110502C140
Network	Firmware Version	50.0.6.103
	Hardware Version	50.0.1.0.0.0.0
Phone		
PhoneBook	Ne	etwork Information
	LAN Port Type	DHCP Auto
Upgrade	LAN Link Status	Connected
	LAN IP Address	192.168.35.13
Security	LAN Subnet Mask	255.255.255.0
	LAN Gateway	192.168.35.1
	LAN DNS1	192.168.35.1
	LAN DNS2	
	Primary NTP	0.pool.ntp.org
	Secondary NTP	1.pool.ntp.org

Sections	Description
Product Information	To display the device's information such as Model name,
	MAC address (IP device's physical address), Firmware version
	and Hardware firmware.
Network Information	To display the device's Networking status(LAN Port), such as
	Port Type(which could be DHCP/Static/PPPoE),
	Link Status, IP Address, Subnet Mask, Gateway, Primary DNS
	server, Secondary DNS server, and Primary NTP server
	and Secondary NTP server(NTP server is used
	to synchronize time from INTERNET automatically).
Account Information	To display device's Account information and Registration
	status (account username, registered server's address, and
	Register result).

**Status->Basic** page is used to display some basic information for IP Phone. Please refer to corresponding page for any further information.

# 5.2. Account->Basic

#### **Path**: Web UI -> Account->Basic

	SIP Account	
Status	Registering	
Account	Account 1	•
Account Active	Enabled	•
Display Label	1001	
Display Name	1001	
Register Name	1001	
User Name	1001	
Password	•••••	
	SIP Server 1	
Server IP	192.168.10.27	Port 5060
Registration Period	1800	(30~65535s)

Sections	Description
SIP Account	To display and configure the specific Account settings.
	• Status: To display register result.
	• Display Label: Label is displayed on the phone's LCD
	screen.
	• Display Name: Name is sent to the other call party for
	displaying.
	• Register Name: Allocated by SIP server provider, used for
	authentication.
	• User Name: Allocated by your SIP server provide, used
	for authentication.
	<ul> <li>Password: Used for authorization.</li> </ul>
SIP Server 1	To display and configure Primary SIP server settings.
	• Server IP: SIP server address, it could be an URL or IP
	address.
	• Registration Period: The registration will expire after
	Registration period. The IP phone will re-register
	automatically within registration period.

Server IP	192.168.10.27	Port 5060
Registration Period	1800	(30~65535s)
Outh	oound Proxy Server	
Enable Outbound	Enabled	T
Server IP	66.66.17.152	Port 5060
Backup Server IP		Port 5060
Transport Type	Transport Type	¥
Transport Type	NAT	
	Disabled	T
NAT	Disabled	

Sections	Description
SIP Server 2	To display and configure Secondary SIP server settings. This is for redundancy, if registering to Primary SIP server fails, the IP phone will go to Secondary SIP server for registering. <b>Note</b> : Secondary SIP server is used for redundancy; it can be left blank if there is not redundancy SIP server in user's environment.
Outbound Proxy Server	To display and configure Outbound Proxy server settings. An outbound proxy server is used to receive all initiating request messages and route them to the designated SIP server. <b>Note</b> : If configured, all SIP request messages from the IP phone will be sent to the outbound proxy server forcefully.
Transport Type	<ul> <li>To display and configure Transport type for SIP message</li> <li>UDP: UDP is an unreliable but very efficient transport layer protocol.</li> <li>TCP: Reliable but less-efficient transport layer protocol.</li> <li>TLS: Secured and Reliable transport layer protocol.</li> <li>DNS-SRV: A DNS RR for specifying the location of services.</li> </ul>
NAT	<ul> <li>To display and configure NAT (Net Address Translator) settings.</li> <li>STUN: Short for Simple Traversal of UDP over NATS, a</li> </ul>

solution to solve NAT issues.
Note: By default, NAT is disabled.

# 5.3. Account->Advanced

Path: Web UI->Account->Advanced

unt-Advanced			
		Codecs	
Disabled Codecs G723_53 G723_63 G726-32	Enab PCMU PCMA G729 G722		
		Subscribe	
MWI Subscribe		Disabled	~
MWI Subscribe Pe	riod	1800	(120~65535s

Sections	Description
Codecs	To display and configure available/unavailable codecs list.
	Codec means coder-decoder which is used to transfer analog
	signal to digital signal or vice versa.
	Familiar codecs are G723_53, G723_63, G726_32, PCMA,
	PCMU, G.729,G722.
Subscribe	To display and configure MWI, subscription settings.
	• MWI: Message Waiting Indicator which is used to
	indicate whether there is unread new voice messages.

		D	TMF		
	Туре		RFC2833	T	
	How To Notify DTMF		Disabled	Ŧ	
	DTMF Payload		101	(96~127)	
		(	Call		
	Max Local SIP Port		5062	(1024~6553	35)
	Min Local SIP Port		5062	(1024~6553	35)
	Caller ID Header		FROM	•	
	Auto Answer		Disabled	•	
	Ringtones		Default	•	
	Provisional Response AC	ĸ	Disabled	•	
	Invite with user=phone		Disabled		
	PTime		20	•	
	Anonymous Call		Disabled	•	
	Anonymous Call Rejection	n	Disabled	•	
	Is escape non Ascii char	acter	Enabled	•	
	Missed Call Log		Enabled	•	
	Prevent SIP Hacking		Disabled	•	
	Sections		Desc	ription	
DTMF		To display an	d configure DTM		
			-	l, Info, RFC283	3 or their
		combina	••	,,	
			Notify DIME: Or	ly available when	DIMF Type is
		Info.			
		DTMF P	ayload: To config	ure payload type fo	or DTMF.
		Note: By d	efault, DTMF ty	pe is RFC2833	which is the
				inband frequenc	
				used to be c	-
					•
		traditional te	elephone server.	Type Info use SIP	Info message
		to indicate D	TMF message.		
Call		To display an	d configure call-r	elated features.	
		Max Loc	cal SIP Port: To co	nfigure maximum	local sip port
			gnated account.	0	
			-	. C	1
				nfigure minimum	local sip port
		for desi	gnated account.		
		Caller IE	D Header: To con	figure which Caller	r ID format to
			r displaying on Ph		
				abled, IP pho	ne will be
				UNICU. IF NIIU	
				here is an incor	

auto-answered when there is an incoming call for designated account.

- Ringtones: Choose the ringtone for each account.
- Provisioning Response ACK: 100% reliability for all provisional message, this means it will send ACK every

	time the IP phone receive a provisional SIP message
	from SIP server.
	User=phone: If enabled, IP phone will send user=phone
	within SIP message.
•	PTime: Interval time between two consecutive RTP
	packets.
•	Anonymous Call: If enabled, all outgoing call for the
	designated account will be anonymous number.
•	Anonymous Call Rejection: If enabled, all incoming
	anonymous call for the designated account will be
	rejected.
	Is escape non Ascii character: To transfer the symbol to
	Ascii character.
	Missed Call Log: To display the miss call log.
	Prevent SIP Hacking: Enable or disable to prevent SIP
	from hacking

Mus	sic Server Address
Active	Enabled 🗸
Music Server Address	192.168.10.32@10: ×

	Session Timer		
Active	Disabled	~	
Session Expire	1800		(90~7200s)
Session Refresher	UAC	~	

	Broadsoft
AOC	Enabled V

Sections	Description
Music Server Address	To display or configure third-party MOH (music-on-hold)
	server.
	• Active: To enable or disable this MOH server, If enabled,
	the IP phone will play MOH from configured server.
	• Music Server Address: To configure MOH server address.
Session Timer	To display or configure session timer settings.
	• Active: To enable or disable this feature, If enable, the
	ongoing call will be disconnected automatically once the
	session expired unless it's been refreshed by UAC or
	UAS.

	<ul> <li>Session Expire: Configure session expire time.</li> <li>Session Refresher: To configure who should be response for refreshing a session.</li> <li>Note: UAC means User Agent Client, here stands for IP phone. UAS means User Agent Server, here stands for SIP server.</li> </ul>
Broadsoft	<ul> <li>To display or configure Broadsoft AOC feature.</li> <li>AOC: A feature used to be accounting on Broadsoft platform.</li> <li>Note: Please consult your administrator or Akuvox Technical support for further information.</li> </ul>

	E	ncryption		
Voice Encryption(SRT	P)	Disabled	~	
		NAT		
UDP Keep Alive Mess	ages	Enabled	~	
UDP Alive Msg Interv	al	30	(5~60s)	
RPort		Disabled	~	
	Co	onference		
Туре		Local	~	
Conference URI				
	U	ser Agent		
User Agent		Akuvox	×	
Sections		Desc	ription	
Encryption	To enable	or disabled SRTP fea		
	Voice		RTP):If enabled, all	audic
	_	(technically speaki pted for more secu	ing it's RTP streams) w rity.	vill be
NAT	To display	NAT-related setting	S.	
			If enabled, IP phone wil	
			periodically to router to	keep
	-	ort alive.	annalius massara internel	I
		-	Ceepalive message interval nabled, it will add Remot	
			e for designated account.	

Akuvox SP-R50P

Conference	To select Local or network conference
	• Type: To select desired conference type
	• Conference URI: If network conference is selected, a
	network conference URI is needed to be input.
User Agent	One can customize User Agent field in the SIP message; If
	user agent is set to specific value, user could see the
	information from SIP message. If user agent is not set by
	default, user could see the company name, model number
	and firmware version from SIP message.

# 5.4. Network->Basic

**Path:** Web UI->Network->Basic

DHCP	
Static IP	
IP Address	
Subnet Mask	
Default Gateway	
LAN DNS1	
LAN DNS2	
) PPPoE	
User Name	
Password	*****

Sections	Description
LAN Port	To display and configure LAN Port settings.
	• DHCP: If selected, IP phone will get IP address, Subnet
	Mask, Default Gateway and DNS server address from
	DHCP server automatically.
	• Static IP: If selected, you have to set IP address, Subnet
	Mask, Default Gateway and DNS server manually.
	• PPPoE: Use PPPoE username/password to connect to

PPPoE server.

# 5.5. Network->Advanced

Path: Web UI->Network->Advanced

	I	ocal RTP		
	Max RTP Port	12000	(1024	~65535)
	Starting RTP Port	11800	(1024/	~65535)
		SNMP		
	Active	Disabled	~	
	Port		(1024	~65535)
	Trusted IP			
		VLAN		
AN Port	Active	Disabled	~	
	VID	1	(1~40	94)
	Priority	0	~	
C Port	Active	Disabled	~	
	VID		(1~40	

Sections	Description
Local RTP	To display and configure Local RTP settings.
	• Max RTP Port: Determine the maximum port that RTP
	stream can use.
	• Min RTP Port: Determine the minimum port that RTP
	stream can use.
SNMP	To display and configure SNMP settings.
	<ul> <li>Active: To enable or disable SNMP feature.</li> </ul>
	<ul> <li>Port: To configure SNMP server's port.</li> </ul>
	• Trusted IP: To configure allowed SNMP server address, it
	could be an IP address or any valid URL domain name.
	Note: SNMP(Simple Network Management Protocols) is
	Internet-standard protocol for managing devices on IP

0

~

Priority

	networks.
VLAN	To display and configure VLAN settings.
	<ul> <li>LAN Port/PC Port: You can configure VLAN setting for</li> </ul>
	both ports respectively.
	<ul> <li>Active: To enable or disable VLAN feature for designated</li> </ul>
	port.
	<ul> <li>VID:To configure VLAN id for designated port.</li> </ul>
	<ul> <li>Priority: To select VLAN priority for designated port.</li> </ul>
	Note: Please consult your administator for specific VLAN
	settings in your networking environment.

	QoS	
SIP QoS	40	(0~63)
Voice QoS	40	(0~63)

	Active	Disabled	~	
	Version	1.0	~	]
NCS	URL	http://192.168.10.42		
	User Name	akuvox		
	Password	•••••		
Periodic Inform	Active	Disabled	~	]
	Periodic Interval	1800		(3~24×3600s)
CPE	URL			
	User Name			
	Password			

	VPN	
Active	Disabled 🗸	
User Name	2	
Password	•••••	
Upload(<50K)		浏览
	Unload	

Sections	Description
QoS	<ul> <li>To display and configure QoS settings.</li> <li>SIP QoS:To configure QoS value for all SIP message.</li> </ul>
	<ul> <li>Voice QoS:To configure QoS value for all audio stream(RTP streams).</li> </ul>
TR069	To display and configure TR069 settings.

	• Active: To enable or disable TR069 feature.	
	• Version: To select supported TR069 version (version 1.0	
	or 1.1).	
	• ACS/CPE: ACS is short for Auto configuration servers as	
	server side, CPE is short for Customer-premise	
	equipment as client side devices.	
	• URL: To configure URL address for ACS or CPE.	
	• User name: To configure username for ACS or CPE.	
	• Password: To configure Password for ACS or CPE.	
	• Periodic Inform: To enable periodically inform.	
	• Periodic Interval: To configure interval for periodic	
	inform.	
	Note: TR-069(Technical Report 069) is a technical	
	specification entitled CPE WAN Management Protocol	
	(CWMP).It defines an application layer protocol for remote	
	management of end-user devices.	
VPN	To display and configure VPN settings.	
	• Active: To enable or disable VPN feature.	
	• Upload: To upload VPN client configuration file which is	
	used to connect to VPN server.	
	Note: For now, IP phone can only support OpenVPN.	

# 5.6. Phone ->Time/Lang

Path: Web UI->Phone->Time/Lang

	Web Lan	guage	
Гуре		English	T
	LCD Lan	guage	
Гуре		English	•
	Format S	etting	
Time Format		12Hour	•
oate Format		DD-MM-YYYY	•
Display Mode		Day	•
	Тур	e	
Manual			
Date	Year	Mon	Day
Time	Hour	Min	Sec
Auto			
	NT	D	
Time Zone	+1 France(Par	s)	•
Suine and Comment	0.pool.ntp.org		
Primary Server			
Frimary Server Secondary Server	1.pool.ntp.org		

Sections	Description	
Web Language	To choose the web language.	
LCD Language	To choose the phone language.	
Format Setting	To configure time display settings.	
	• Time Format: Determine what format to display on	
	Phone UI(12 hour/24 hour).	
	• Date Format: Determine what format to display on	
	Phone UI for Date.	
	• Display Mode: Determine what mode to display Time &	
	Date on Phone UI.	
Туре	To select how to configure time, it could be set by manually	
	or get from INTERNET automatically via NTP server.	
	<ul> <li>Manual: To set Time and Date manually.</li> </ul>	
	• Auto: To get Time via NTP server.	
	Note: If you set time to be Manually, it only take effect till	
	next reboot, after reboot, the phone will switch to Auto	

	mode automatically, because there is no way for IP phone to	
	record time during power off.	
NTP	To configure NTP server related settings.	
	• Time Zone: To select local Time Zone for NTP server.	
	• Primary Server: To configure primary NTP server	
	address.	
	• Secondary Server: To configure secondary NTP server	
	address, it takes effect if primary NTP server is	
	unreachable.	
	• Update interval: To configure interval between two	
	consecutive NTP requests.	
	Note: NTP, Network Time Protocol is used to automatically	
	synchronize local time with INTERNET time, since NTP server	
	only response GMT time, so that you need to specify the	
	Time Zone for IP phone to decide the local time.	

Active	Auto 🔹
OffSet	60 (-300~300Minutes)
By Date	
Start Time	1 Mon 1 Day 0 Hour
End Time	12 Mon 31 Day 23 Hour
By Week	
Start Month	Jan 🔻
Start Week Of Month	First In Month
Start Day Of Week	Monday 🔻
Start Hour	0 (0~23)
End Month	Dec 🔻
End Week Of Month	Fourth In Month 🔻
End Day Of Week	Sunday 🔻
End Hour	23 (0~23)

Sections	Description
Daylight Saving Time	To display or configure DST settings.
	Note: Here DST, is short for Daylight saving time, which
	stands for the time in the summer days when sun rises early
	will be adjusted forward to save daylight. The DST will take
	effects during the period that set by user. (all the settings for
	DST are all self-explanatory, please consult with your
	administrator for local DST details).

# 5.7. Phone->Preference

Path: Web UI->Phone->Preference

Preference		
Headset Mode		
Active	Disabled 🗸	
	Key Press Sound	
Volume	8(0~15)	
	Ringtone Volume	
Volume	8 (0~15)	
Sections	Description	
Headset Mode	To enable or disable Headset Mode.	
	<ul> <li>Active: If enabled, the default audio track will be headset mode, if audio track is changed during a call, i will be back to headset mode after you hang up the call.</li> </ul>	
Key Press Sound	To configure the sound volume for key press.	
	<ul> <li>Volume: The valid volume range is from 0~15,by default it's 8.</li> </ul>	
Ringtone Volume	To configure the sound volume for ringtone.	
	<ul> <li>Volume: The valid volume range is from 0~15, by default</li> </ul>	
	it's 8.	

# 5.8. Phone->Call Feature

Path: Web UI->Phone->Call Feature

M	ode Phone	
Feature Key Sync	Disabled •	
1ode	Phone Custom	
For	ward Transfer	
Account	All Account	
Always Forward	Enabled 🔹	
Target Number	101	
On Code	*72	
Off Code	*73	
Busy Forward	Enabled 🔹	
Target Number	102	
On Code	*90	
Off Code	*91	
No Answer Forward	Enabled 🔹	
No Answer Ring Time	30 🔹	
Target Number	103	
On Code	*52	
Off Code	*53	
	DND	
DND Emergency	Enabled •	
DND Authorized Number	1001	
Account	All Account 🔹	
DND	Disabled 🔹	
Return Code When DND	486(Busy Here)	•
DND On Code	*78	
DND Off Code	*79	

Sections	Description		
Mode	To enable or disable feature key sync.		
	• Feature Key Sync: To enable or disable feature key sync.		
	<ul> <li>Mode: Select the desired mode.</li> </ul>		
Forward Transfer	To display and configure Forward setting.		
	Note: There are three types of forward: Always Forward,		
	Busy Forward and No answer Forward.		
	• Always Forward: Any incoming call will be forwarded in		
	any situation.		
	• Busy Forward: An incoming call will be forwarded if IP		
	phone is busy.		
	• No answer Forward: An incoming call will be forwarded		
	if it's no answer after a specific time.		
DND	DND(Do Not Disturb) allows IP phones to ignore any		

incoming calls.
• Return Code when DND: Determine what response code
should be sent back to server when there is an incoming
call if DND on.
• DND On Code: The Code used to turn on DND on
server's side, if configured, IP phone will send a SIP
message to server to turn on DND on server side if you
press DND when DND is off.
DND Off Code: The Code used to turn off DND on server's
side, if configured, IP phone will send a SIP message to server
to turn off DND on server side if you press DND when DND is
on.

	Call Waiting
Call Waiting Enable	Enabled
Call Waiting Tone	Enabled
On Code	
Off Code	
	Auto Redial
Auto Redial	Disabled 🗸
Auto Redial Interval	10 (1~300s)
Auto Redial Times	3 (1~100)
	Intercom
Active	Enabled 🗸
Intercom Mute	Disabled
	HotLine
Active	Enabled
Number	1001
Delay Time	4 (0~5s)
Sections	Description
Call Waiting	To enable or disable Call Waiting.
	• Call Waiting Enable: If enabled, it allows IP phones to
	receive a new incoming call when there is already an

	active call.
	• Call Waiting Tone: If enabled, it allows IP phones to play
	the call waiting tone to the waiting callee.
Auto Redial	Auto redial allows IP phones to redial an unsuccessful call for
	designated times within designated interval.
	• Auto Redial: To enable or disable auto redial feature.
	• Auto Redial Interval: Determine the interval between
	two consecutive attempts.
	• Auto Redial Times: Determine how many times to redial.
Intercom	Intercom allow user to establish a call directly with the callee.
	• Active: To enable or disable Intercom feature.
	• Intercom Mute: If enabled, once the call established, the
	callee will be muted.
HotLine	HotLine allows user to call out a defined number
	automatically after hearing the dailtone without dialing any n
	umber.
	• Active: To enable or disable HotLine feature.
	• Number: To set the defined HotLine number.
	• Delay Time: To set the automatically call out interval afte
	r hearing the dailtone.

Function Key	▼ (0~15)
	• (0~15)
	(0~15)
30	(0~3600s)
end	
s	Send

Sections	Description
Remote Control	Remote Control allows specific host to interact with IP phone
	by sending HTTP or HTTPS requests. The specific action could
	be answering an incoming call, hangup an ongoing call and so
	on.
	• Allowed Access IP List: To configure the allowed host
	address.
	Note: For now, IP phone can only support IP address, IP
	address list and IP address pattern as allowed hosts
Keypad Lock	Keypad Lock allows to lock the keypad of your phone

	temporarily when you are not using it. This feature helps to
	protect your phone from unauthorized use.
	• Keypad Lock Type: To lock the phone with function keys
	or all keys;
	• Keypad Unlock PIN: To lock the phone with a password.
	• Keypad Lock Timeout: the idle interval to lock the
	phone.
Key As Send	Key As Send allows you to disable send key or assign pound
	key as send key.

SIP Session T1	0.5 (0.5~10s)
SIP Session T2	4 (2~40s)
	UACSTA
UACSTA Active	Enabled 🗸
Register Name	admin ×
register reame	
Password	•••••
-	•••••• 192.168.10.32 Port 5060

	Others
Return Code When Refuse	486(Busy Here)
Auto Answer Delay	0 (0~5s)
Early DTMF	Disabled 🗸
Multicast Codec	PCMU 🗸
Direct IP	Enabled V

Sections	Description
SIP Config	Setup the SIP protocol package interval. T2 is maximum.
	The interval should be larger the T1, but less then T2.
UACSTA	Using CSTA for SIP phone user agents. It can control
	some features of calling. UACSTA is used to send
	ECMA-323(CSTA XML) information during SIP calling.
	The default status is disabled.
Others	• Return Code When Refuse: Allows user to assign specific
	code as return code to SIP server when an incoming call
	is rejected.

•	Auto Answer Delay: To configure delay time before an
	incoming call is automatically answered.
•	Early DTMF: To enable or disable early DTMF
•	Multicast codec: To choose different multicast codec
•	Direct IP: To enable or disable direct IP call.

# 5.9. Phone->Voice

Path: Web UI->Phone->Voice

<b>T</b> <b>T</b> <b>T</b>
•
<b>T</b>
(0~1000ms)
(0~1000ms)
(0~1000ms)
(1, 15)
(1~15)
(1~15)

Sections	Description
Echo Canceller	Echo Canceller: To remove acoustic echo from a voice
	Communication in order to improve the voice quality.
	• VAD (Voice Activity Detection): Allow IP phone to detect
	the presence or absence of human speech during a call.
	When detecting period of "silence", VAD replaces that
	silence efficiently with special packets that indicate
	silence is occurring. It can facilitate speech processing,
	and deactivate some processes during non-speech
	section of an audio session. It can avoid unnecessary
	coding or transmission of silence packets in VoIP
	applications, saving on computation and network

	la e a de célebre			
	bandwidth.			
	<ul> <li>CNG (Comfort Noise Generation):allow IP phone to</li> </ul>			
	generate comfortable background noise for voice			
	communications during periods of silence in a conversation. It is a part of the silence suppression or			
	conversation. It is a part of the silence suppression or VAD handling for VoIP technology CNG in conjunction			
	VAD handling for VoIP technology. CNG, in conjunction			
	with VAD algorithms, quickly responds when periods of			
	silence occur and inserts artificial noise until voice			
	activity resumes. The insertion of artificial noise gives			
	the illusion of a constant transmission stream, so that			
	background sound is consistent throughout the call and			
	the listener does not think the line has released.			
Jitter Buffer	Jitter buffer is a shared data area where voice packets can be			
	collected, stored, and sent to the voice processor in even			
	intervals. Jitter is a term indicating variations in packet arrival			
	time, which can occur because of network congestion, timing			
	drift or route changes. The jitter buffer, located at the			
	receiving end of the voice connection, intentionally delays			
	the arriving packets so that the end user experiences a clear			
	connection with very little sound distortion.			
	IP phones support two types of jitter buffers: fixed and			
	adaptive.			
	Fixed: Add the fixed delay to voice packets. You can configure			
	the delay time for the static jitter buffer on IP phones.			
	Adaptive: Capable of adapting the changes in the network's			
	delay. The range of the delay time for the dynamic jitter			
	buffer added to packets can be also configured on IP phones.			
Mic Volume	To configure Microphone volume for headset, handset and			
	speaker mode.			
	'			

# 5.10.Phone->Key/Display

**Path:** Web UI->Phone->Key/Display

			S	oft Key
Кеу	Туре		Label	Value
Soft Key 1	History	~		
Soft Key 2	Book	~		all

2

Sections	Description		
Soft Key	Allows user to assign specific feature to the designated sc		
	keys.		
	For softkey, the available features list:		
	DND, Menu, MSG, Status, Book, Fwd, PickUp, Group, PickUp,		
	Intercom, Speed Dial, History, Favorites, Redial, CallReturn,		
	HotDesking and so on		
Display	<ul> <li>Backlight Intensity: To adjust the backlight intensity of</li> </ul>		
	Phone UI.		
	<ul> <li>Backlight Time: To adjust backlight on timer, once</li> </ul>		
	expired the backlight of Phone UI will go off.		

-		
Кеу	Туре	Value
ОК	Status 🔻	
Cancel	N/A 🔻	
Forward	Fwd •	

Sections	Description			
Function Key	Allows user to assign specific feature to the designated			
	function keys.			
	For function keys, the available features list:			
	N/A, DND, Menu, MSG, Status, Book, Fwd, PickUp, Group			
	PickUp, Intercom, Speed Dial, History, Favorites, Redia			
	CallReturn, HotDesking, XML Browser and so on.			

	Display
Backlight Intens	ity 4
Racklight Time	30
Sections	Description
Display	<ul> <li>Backlight Intensity: To adjust the backlight intensity of Phone UI.</li> <li>Backlight Time: To adjust backlight on timer, once expired the backlight of Phone UI will go off.</li> </ul>

# 5.11.Phone->Ring tones

#### Path: Web UI->Phone->Ringtones

All	Ringtones
Upload(Max Total Size: 100K)	选择文件 未选择任何文件 Submit Cancel
Uploaded Ringtones	sample.wav 🔻
System Ringtones	Bellcore-dr1.wav

Sections	Description			
All Ringtones	Allow user to upload and view ringtone files or dele			
	uploaded ringtone files.			
	Note: Ringtone files must be .wav format and has some			
	specific requirement, please contact to Akuvox technical			
	support team for instructions how to make ringtone files.			
	system ringtones files cannot be deleted thus user can only			
	delete uploaded ringtones.			

Index	Keyword	Ringtone	
0	family	Ring3.wav	,
1	office	Ring1.wav	,
2		Ring1.wav	•
3		Ring1.wav	•
4		Ring1.wav	,
5		Ring1.wav	•
6		Ring1.wav	•
7		Ring1.wav	•
8		Ring1.wav	,
9		Ring1.wav	•
10		Ring1.wav	,
11		Ring1.wav	,

Sections	Description		
Distinctive Ringers	Distinctive ringers allow different incoming calls to trigger		
	distinctive ringtones. The IP phone will check "Alert-Info"		

header inside the incoming "invite" SIP message. And strip
out the URL or keyword inside the "Alert-Info" header, from
the specific URL or keyword to match or download
designated ringtones to play.

### 5.12.Phone->Tones

**Path**: Web UI->Phone->Tones

^		
	Tone	
	Select Country	De
	Ring Back	
	Dial	
	Call Waiting	
	DTMF 0	
	DTMF 1	
	DTMF 2	
re	DTMF 3	
	DTMF 4	
	DTMF 5	
iy 🔤	DTMF 6	

Sections	Description	
Tone	Allows user to select a specialized tone sets (classified by	
	countries) or to customize own tones.	
	Note: Available country tones sets are:	
	China, Spain, Luxembourg, Sweden, Taiwan, Belgium,	
	Denmark, Finland, Germany, Netherlands, Norway, Portugal.	

# 5.13.Phone->Dial Plan->Replace Rule

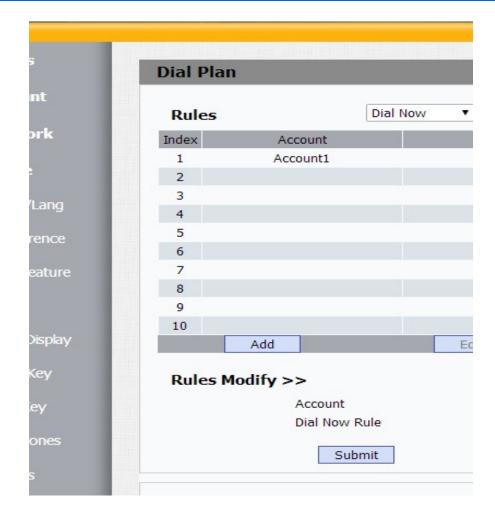
**Path**: Web UI->Phone->Dial Plan->Replace Rule.

Dial Pl	an	
Rules		Replace Rule 🔹
Index	Account	Prefix
1	Auto	100
2		
3		
4		
5		
6		
7		
8		
9		
10		
	Add	E
Rules	Modify >>	
	Account	
	Prefix	
	Replace	

Sections	Description	
Rules	Allow user to select Replace rule or Dial-now to display or	
	edit.	
Rules Modify	Allow user to modify selected rules information, for replace	
	rule, you can modify related account, prefix and replace.	
Area Code	Area codes are also known as NPAs (Numbering Plan Areas).	
	They usually indicate different geographical areas within one	
	country. If entered numbers match the predefined area code	
	rule, the IP phone will automatically prefix outgoing number	
	with area code.	
	Note: There is only one area code rule supported.	

### 5.14.Phone ->Dial Plan->Dial Now

Path: Web UI->Phone->Dial Plan->Dial Now



Sections	Description	
Rules	Allow user to select Replace rule or Dial-now to display or	
	edit.	
Dial Now Delay	Allow user configure dial now delay time for dial now.	
	It means user can configure the IP phone to dial out the	
	phone number automatically after the designated delay time	
	if it match any dial now rule.	
Rules Modify	Allow user to modify selected rules information, for dial-now	
	rule, user can modify related account, Dial now Rule itself.	
Area Code	Area codes are also known as NPAs (Numbering Plan Areas).	
	They usually indicate different geographical areas within one	
	country. If entered numbers match the predefined area code	
	rule, the IP phone will automatically prefix outgoing number	
	with area code.	
	<b>Note</b> : There is only one area code rule supported.	

# 5.15.Phone ->Action URL

Path: Web UI->Phone->A	Action URL
------------------------	------------

S	Action URL	
	ACTION ORL	
int		Actio
ork	Active	Eni
	Setup Completed	Cor
-	Registered	Reg
/Lang	Unregistered	
	Registered Failed	
rence	Off Hook	
eature	On Hook	
	Incoming Call	
	Outgoing Call	
Display	Established	
Kou	Terminated	
Key	Open DND	
(ey	Close DND	
ones	Open Always FWD	
lones	Close Always FWD	
s	Open Busy FWD	
Man	Close Busy FWD	
	Open No Answered FWD	
on URL	Close No Answered FWD	
cast	Transfer Call	
	Blind Transfer	
Book	Attended Transfer	
	Lad	

Sections	Description	
Action URL	To display and configure Action URL settings.	
	Setup Completed: When the IP phone completes startup.	
	• Registered: When the IP phone successfully registers an	
	account.	
	• Unregistered: When the IP phone logs off the registered	
	account.	
	• Register Failed: When the IP phone fails to register an	
	account.	
	• Off Hook: When the IP phone is off hook.	
	• On Hook: When the IP phone is on hook.	
	• Incoming Call: When the IP phone receives an incoming	
	call.	
	• Outgoing Call: When the IP phone places a call.	

•	Established: When the IP phone establishes a call.
	Terminated: When the IP phone terminates a call.
•	Open DND: When the IP phone enables the DND mode.
•	Close DND: When the IP phone disables the DND mode.
•	Open Always Forward: When the IP phone enables the always forward.
•	Close Always Forward: When the IP phone disables the always forward.
•	Open Busy Forward: When the IP phone enables the busy forward.
•	Close Busy Forward: When the IP phone disables the busy forward.
•	Open No Answer Forward: When the IP phone enables the no answer forward.
•	Close No Answer Forward: When the IP phone disables the no answer forward
•	Transfer Call: When the IP phone transfers a call.
•	Blind Transfer: When the IP phone blind transfers a call.
•	Attended Transfer: When the IP phone performs the
	semi-attended/attended transfer.
•	Hold: When the IP phone places a call on hold.
•	UnHold: When the IP phone retrieves a hold call.
•	Mute: When the IP phone mutes a call.
•	UnMute: When the IP phone un-mutes a call.
•	Missed Call: When the IP phone misses a call.
•	IP Changed: When the IP address of the IP phone changes.
•	FWD Incoming Call: When the IP phone forwards an incoming call.
•	Reject Incoming Call: When the IP phone rejects an incoming call.
•	Answer New Call: When the IP phone answers a new
	call.
•	Transfer Finished: When the IP phone completes to transfer a call.
•	Transfer Failed: When the IP phone fails to transfer a call.
	Idle To Busy: When the state of the IP phone changes
	from idle to busy.
•	Busy To Idle: When the state of phone changes from busy to idle.

### 5.16.Phone->Multicast

Path:	Web	UI->	Phone->	Multicast
i aciii		01.7	i nonc i	i vi ai ci casc

Multicast	
	Multicas
Paging Barge	
Paging Priority	y Active
	Priori
IP Address	Listening Addr
1 IP Address	224.1.6.16:22006
2 IP Address	
3 IP Address	
4 IP Address	
5 IP Address	
6 IP Address	

Sections	Description	
Multicast Setting	To display and configure the Multicast	
	setting.	
	<ul> <li>Paging Barge: Choose the multicast</li> </ul>	
	number ,the range is 1-10.	
	• Paging priority Active: Enable o disable	
	the multicast.	
Priority List	To setup the multicast parameters.	
	• Listening Address: Enter the IP address	
	you need to listen	
	• Label: Input the label for each listening	
	address	

### 5.17.PhoneBook->Local Phone Book

**Path**: Web UI->PhoneBook->Local Book

#### Akuvox SP-R50P

WEB Interface

Local Book • All Contacts Contact All Contacts Search Reset Search Favorites Black List Auto • Dial Hand Up Dial Index Name Office Num Mobile Num Other Num Group Ring Account 1 AAA 171 171 Default Auto Auto 171 2 DG <u>132</u> Default <u>12</u> <u>3</u> Auto Auto 3 4 5 6 7 8 9 10 Move To All Contacts -Page 1 -Prev Next Delete Delete All **Contact Setting** Name Office Num Mobile Num Other Num Group Default • Ring Auto • Account Auto • Add Edit Cancel

Sections	Description	
Contact	To display and select local contact type.	
	• All Contacts: To display or edit all local contacts.	
	• Favorites: To display or edit favorites contacts.	
	Black List: To display black list contacts.	
Search	To search designated contacts from local phonebook.	
Dial	To dial out a call or hang up an ongoing call from Web UI.	
	Note: For this feature, you need to have the remote control	
	privilege to control IP phone via Web UI. Please refer to	
	section "Remote Control" in the Web UI->Phone->Call	
	Feature page.	

Group				
Index	Name	Ring	Description	8
1	test1	Bellcore-dr1.wav		
2				
3				
4				
5				
	Delete		Delete All	
Group	Setting			
	Ring Descrip Add		Cancel	
	Contact	刘览… 未选择工 Import Exp	文件。 (.XML/.CSV) port Cancel	
	Black List	浏览 未选择了 Import Exp		
	Sections		Description	

Sections	Description				
Group	To display or edit Group contacts.				
Group Setting	To display or change Group name, related ringtone or description.				
Import/Export	To import or export the contact or blacklist file.				

## 5.18.Phone Book->Remote Phone Book

**Path**: Web UI->PhoneBook->Remote Book

	Remo	ote Book	
Index	Local Book	URL	Local Book Name
1	tftp://192.168.10.53/remote phore	ne book.xml	test2
2			
3			
4			
5			
Sea	rch Remote Phonebook Name	Enabled	•
Refresh Interval		3600	(120~2592000s)

Sections	Description	
Remote Book	To display and configure Remote Book settings.	
	Index: To select desired Remote Book item to display and	
	configure.	
	<ul> <li>Local Book URL:To configure remote book server address</li> </ul>	
	<ul> <li>Local Book Name: To configure display remote book</li> </ul>	
	name on Phone UI	
	• Search Remote Phonebook Name: To enable or disable	
	search remote phonebook name	
	• Search Flash Interval: To set interval (Range from 120s to	
	2592000s)	
	Note: IP phone support at most 2 remote books. Please refer	
	to your administrator or Akuvox Technical Support team for	
	how to establish a remote book server and how to create	
	remote book xml file.	

# 5.19.Phone Book->Call log

Path: Web UI ->PhoneBook ->Call Log

1.000	 1000		
	 100	0	-
La		•	u

			<u></u>				
C	all History	1	All	<ul> <li>Hand Up</li> </ul>			
Index	Туре	Date	Time	Local Identity	Name	Number	
1	Forwarded	2016-09-07	14:06:26	192.168.10.1 91@192.168.1 0.191	192.168.10.230	<u>192.168.10.2</u> <u>30@192.168.1</u> <u>0.230</u>	
2	Missed	2016-09-07	14:05:56	192.168.10.1 91@192.168.1 0.191	192.168.10.230	<u>192.168.10.2</u> <u>30@192.168.1</u> <u>0.230</u>	
3	Received	2016-09-07	14:05:44	192.168.10.1 91@192.168.1 0.191	192.168.10.230	<u>192.168.10.2</u> <u>30@192.168.1</u> <u>0.230</u>	
4	Dialed	2016-09-07	14:05:28	192.168.10.1 91@192.168.1 0.191	Unknown	<u>192.168.10.2</u> <u>14@192.168.1</u> <u>0.214</u>	
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
Pag	ge 1 🔻	Prev	Ne	ext	Delete	Delete All	

Sections	Description
Call History	To display call history records.
	Available call history type are All calls, Dialed calls, Received
	calls, Missed calls, Forwarded calls.
	• HangUp: To click to hang up ongoing call on the IP
	phone.
	Note: For "HangUp" feature, you need to have the remote
	control privilege to control IP phone via Web UI. Please refer
	to section "Remote Control" in the Web UI->Phone->Call
	Feature page.

## 5.20.Phone Book->LDAP

Path: Web UI->PhoneBook->LDAP

#### LDAP

Name Filter	( (cn=#)(sn=#))	
Number Filter	( (telephoneNumber=#)(mobile	
Server	192.168.10.31	
Port	389	(1~65535)
Base DN	ou=Group1,o=RL,c=cn	]
User Name	cn=admin,o=RL,c=cn	
Password	•••••	
Name Attribute	sn cn	
Number Attribute	telephoneNumber mobile home	
Display Name	sn cn	
Max Hits	50	(1~500)
Search Delay Time	1000	(200~3000)m

Submit

Sections	Description
LDAP	To display and configure LDAP phonebook settings.
	• Name Filter: The settings used to tell LDAP server what
	name attributes to search.
	• Number Filter: The settings used to tell LDAP server
	what number attributes to search.
	<ul> <li>Server: To configure LDAP server's address.</li> </ul>
	<ul> <li>Port: To configure LDAP server's port.</li> </ul>
	• Base DN: To configure searching base DN on LDAP
	server.
	• User Name: To configure user name for accessing LDAP
	server.
	• Password: To configure password for accessing LDAP
	server.
	• Name Attribute: To configure which name attributes
	should be feedback from LDAP server.
	• Number Attribute: To configure which number attributes
	should be feedback from LDAP server.
	• Display Name: To configure display name on Phone UI
	when there is any searching result from LDAP server.
	• Max Hits: To configure the maximum size of result
	response from LDAP server.
	• Search Delay Time: To configure delay time before
	initiate LDAP searching request after you input a value

from Phone UI.
Note: For setting details, please consult with your system
administrator or Akuvox technical support team for further
information.

### 5.21.Phone Book->BroadSoft

#### **Path**: Web UI->PhoneBook->Broadsoft

noneBook Item	Item1	•	
play <mark>N</mark> ame	Group	•	
ver Address	http://xsp1.io	p2.broadworks.net	
ver Port	80	(1~65535)	
r Name	Akuvox User2	@as.iop2.broadw	
sword	•••••		

Sections	Description
Broadsoft PhoneBook	<ul> <li>To display and configure Broadsoft PhoneBook settings.</li> <li>PhoneBook Item: To select specific item to configure.</li> <li>Display Name: The name displayed at IP phone's LCD screen when accessed via Phone UI.</li> <li>Server Address: Broadsoft PhoneBook server's address.</li> </ul>
	<ul> <li>Server Port: Broadsoft PhoneBook server's port.</li> <li>User Name: Username used to access Broadsoft PhoneBook server.</li> <li>Password: Password used to access Broadsoft PhoneBook server.</li> </ul>
	Note: IP phone supports at most 5 Broadsoft PhoneBook items. For Broadsoft Phone Book's server address, port, username and password, you need to consult your Broadsoft service provider for further information.

# 5.22.Upgrade->Basic

Path:	Web	UI->Upgrade->Basic
-------	-----	--------------------

Upgrade-Basic	
Firmware Version Hardware Version	50.0.6.134 50.0.1.0.0.0.0
Upgrade	浏览… Submit Cancel
Reset To Factory Setting	Submit
Reboot	Submit

Sections	Description	
Upgrade	To select upgrading rom file from local or a remote server	
	automatically.	
	Note: Please make sure it's right file format for right model.	
Firmware version	To display firmware version, firmware version starts with	
	MODEL name.	
	For example, R50P firmware version should be like	
	50.xxx.xxx.rom	
Hardware Version	To display Hardware version.	
Reset to Factory Setting	To enable you to reset IP phone to factory settings.	
Reboot	To reboot IP phone remotely from Web UI.	

## 5.23.Upgrade->Advanced

Path:Web UI->Upgrade->Advanced

rade-Advanced			
PNP Op	tion		
PNP Config	Enabled	•	
<b>DHCP O</b>	ption		
Custom Option		(	128~25 <mark>4</mark> )
(DHCP Option 66/43 is Enabled by Default)			

Ma	anual Autop					
URL	http://192.168.10.29					
User Name	administrator					
Password	•••••					
Common AES Key	•••••					
AES Key(MAC)	•••••					
AutoP Immediately						
Auto	omatic Autop					
Mode	Power On 👻					
Schedule	Sunday -					
	22 Hour(0~23)					
	0 Min(0~59)					
Clear MD5	Submit					
Export Autop Template	Export					
LogLevel Export Log Remote System Log Remote System Server	3 Export Disabled					
Submit Cancel						
	РСАР					
PCAP	Start Stop Export					
PCAP Auto Refresh	Disabled -					
	Others					
Config File(.tgz/.conf/.cfg)	浏览 未选择文件。					
Config File(.tgz/.conf/.cfg)	浏览… 未选择文件。 Export (Encrypted)					

#### WEB Interface

Sections	Description
PNP Option	To display and configure PNP setting for Auto Provisioning.
	• PNP: Plug and Play, Once PNP is enabled, the phone will
	send SIP subscription message to PNP server
	automatically to get Auto Provisioning server's address.
	By default, this SIP message is sent to multicast address
	224.0.1.75(PNP server address by standard).
DHCP Option	To display and configure custom DHCP option.
	• DHCP option: If configured, IP Phone will use designated
	DHCP option to get Auto Provisioning server's address
	via DHCP.
	This setting require DHCP server to support corresponding
	option.
Manual Autop	To display and configure manual update server's settings.
	<ul> <li>URL: Auto provisioning server address.</li> </ul>
	• User name: Configure if server needs an username to
	access, otherwise left blank.
	• Password: Configure if server needs a password to
	access, otherwise left blank.
	• Common AES Key: Used for IP phone to decipher
	common Auto Provisioning configuration file(for R50P,
	this configuration file is r00000000050.cfg).
	• AES Key(MAC):Used for IP phone to decipher
	MAC-oriented auto portioning configuration file(for
	example, file name could be 0c11058888888.cfg if IP
	phone's MAC address is 0c1105888888).
	<b>Note:</b> AES is one of many encryption, it should be configure
	only configure filed is ciphered with AES, otherwise left blank.
Automatic AutoP	To display and configure Auto Provisioning mode settings.
	This Auto Provisioning mode is actually self-explanatory.
	For example, mode "Power on" means IP phone will go to do
	Provisioning every time it powers on.
	<ul> <li>Remote system log: To enable or disable remote system</li> </ul>
	log.
	<ul> <li>Remote system server: Input remote system server</li> </ul>
	address here if Remote system log is enabled.
System Log	To display syslog level and export syslog file.
,	<ul> <li>Syslog level: From level 0~7.The higher level means the</li> </ul>
	more specific syslog is saved to a temporary file. By
	default, it's level 3.
	• Export Log: Click to export temporary syslog file to local
	PC.
	• Remote System Log: To enable or disable Remote System

	<ul> <li>Log.</li> <li>Remote System Server: To input the syslog server address.</li> </ul>
РСАР	<ul> <li>To start, stop packets capturing or to export captured Packet file.</li> <li>Start: To start capturing all the packets file sent or received from IP phone.</li> <li>Stop: To stop capturing packets.</li> <li>Note: IP phone will save captured packets file to a temporary file, this file maximum size is 1M (megabytes), and will top capturing once reaching this maximum size.</li> </ul>
Others	To display or configure others features from this page. Config file: To export or import configure file for IP phone.

**Note**: Please refer to Auto Provisioning manual for instructions how to do Auto Provisioning for Akuvox SIP-R5X series IP phone.

### 5.24.Security->Basic

#### Path: Web UI->Security->Basic

	ssword Modify	
User Name	admin 👻	
Current Password		
New Password		
Confirm Password		
Sessi	on Time Out	
Session Time Out Value	300	(60~14400s)

Sections	Description	
Web Password Modify	To modify user's password.	
	• Current Password: The current password you used.	

Akuvox SP-R50P

	• New Password: Input new password you intend to use.
	• Confirm Password: Repeat the new password.
	Note: For now, IP phone can only support user admin.
Session Time Out Value	Over the session time out value, users need to login in the
	web again.
	• Session Time Out Value: the ranger is from 60s to
	14400s.

# 5.25.Security->Advanced

Path: Web UI->Security->Advanced	
Advanced	

Web Server Certificate					
[ndex	Issue To	Issuer	Expire Time	Delete	
1	Akuvox	Akuvox	Sun Oct 9 16:00:00 2034	Delete	
	Server Certifica 顺 未选择文件	100101-100000	Submit Cancel	_	

Sections	Description
Web Server Certificate	To display or delete Certificate which is used when IP phone
	is connected from any incoming HTTPs request.
	Note: The default certificate could not be deleted.
Web Server Certificate	To upload a certificate file which will be used as server
Upload	certificate.
Client Certificate	To display or delete Certificates which is used when IP phone
	is connecting to any HTTPs server.
Client Certificate Upload	To upload certificate files, this is used as client certificate.
	• Only Accept trusted Certificates: If this option is
	enabled, only trusted certificates will be accepted.

# 6. Troubleshooting

#### Issue 1: The LCD does not light up

- Check the AC power adapter. Make sure it is the one provided in your package.
- Check the power outlet. Make sure that the power that outlet you are plugging your device into is working. Try to plug a different device into the socket to make sure it has power.

#### Issue 2: No signal tone heard from the handset

 Check the connection cord between the handset and the phone. Make sure it is connected properly.

#### Issue 3: Cannot access the web interface

- Check the connection between the PC port of the device and the network port of the computer. Make sure it is fine.
- Check whether the IP address of the device is correct.
- If it is LAN, please make sure there is no IP address collision with other devices on the network.

#### Issue 4: Cannot call out

- Please see the network connection status of device, if it is exception, and then check the connection of network.
- If the network connection is normal, please check whether the device has registered successfully.
- If the network connection and the registered are both normal, please confirm whether the dial rule is correct, or please communicate with the service operator.

# 7. Appendix : Time Zones

Time Zone	Time Zone Name
-11:00	Samoa
-10:00	United States-Hawaii-Aleutian
-10:00	United States-Alaska-Aleutian
-09:00	United States-Alaska Time
-08:00	Canada(Vancouver, Whitehorse)
-08:00	Mexico(Tijuana, Mexicali)
-08:00	United States-Pacific Time
-07:00	Canada(Edmonton, Calgary)
-07:00	Mexico(Mazatlan, Chihuahua)
-07:00	United States-Mountain Time
-07:00	United States-MST no DST
-06:00	Canada-Manitoba(Winnipeg)
-06:00	Chile(Easter Islands)
-06:00	Mexico(Mexico City, Acapulco)
-06:00	United States-Central Time
-05:00	Bahamas(Nassau)
-05:00	Canada(Montreal, Ottawa, Quebec)
-05:00	Cuba(Havana)
-05:00	United States-Eastern Time
-04:30	Venezuela(Caracas)
-04:00	Canada(Halifax, Saint John)
-04:00	Chile(Santiago)
-04:00	Paraguay(Asuncion)
-04:00	United Kingdom-Bermuda(Bermuda)
-04:00	United Kingdom(Falkland Islands)
-04:00	Trinidad&Tobago
-04:00	Curacao
-03:30	Canada-New Foundland(St.Johns)

Time Zone	Time Zone Name
-03:00	Denmark-Greenland(Nuuk)
-03:00	Argentina(Buenos Aires)
-03:00	Brazil(no DST)
-03:00	Brazil(DST)
-02:00	Brazil(no DST)
-01:00	Portugal(Azores)
0	GMT
0	Greenland
0	Denmark-Faroe Islands(Torshavn)
0	Ireland(Dublin)
0	Portugal(Lisboa, Porto, Funchal)
0	Spain-Canary Islands(Las Palmas)
0	United Kingdom(London)
0	Могоссо
+01:00	Albania(Tirane)
+01:00	Austria(Vienna)
+01:00	Belgium(Brussels)
+01:00	Caicos
+01:00	Chatam
+01:00	Croatia(Zagreb)
+01:00	Czech Republic(Prague)
+01:00	Denmark(Kopenhagen)
+01:00	France(Paris)
+01:00	Germany(Berlin)
+01:00	Hungary(Budapest)
+01:00	Italy(Rome)
+01:00	Luxembourg(Luxembourg)
+01:00	Macedonia(Skopje)
+01:00	Netherlands(Amsterdam)
+01:00	Namibia(Windhoek)
+02:00	Estonia(Tallinn)

Time Zone	Time Zone Name
+02:00	Finland(Helsinki)
+02:00	Gaza Strip(Gaza)
+02:00	Greece(Athens)
+02:00	Israel(Tel Aviv)
+02:00	Jordan(Amman)
+02:00	Latvia(Riga)
+02:00	Lebanon(Beirut)
+02:00	Moldova(Kishinev)
+02:00	Russia(Kaliningrad)
+02:00	Romania(Bucharest)
+02:00	Syria(Damascus)
+02:00	Turkey(Ankara)
+02:00	Ukraine(Kyiv, Odessa)
+03:00	East Africa Time
+03:00	Iraq(Baghdad)
+03:00	Russia(Moscow)
+03:30	Iran(Teheran)
+04:00	Armenia(Yerevan)
+04:00	Azerbaijan(Baku)
+04:00	Georgia(Tbilisi)
+04:00	Kazakhstan(Aktau)
+04:00	Russia(Samara)
+05:00	Kazakhstan(Aqtobe)
+05:00	Kyrgyzstan(Bishkek)
+05:00	Pakistan(Islamabad)
+05:00	Russia(Chelyabinsk)
+05:30	India(Calcutta)
+06:00	Kazakhstan(Astana, Almaty)
+06:00	Russia(Novosibirsk, Omsk)
+07:00	Russia(Krasnoyarsk)
+07:00	Thailand(Bangkok)

### Appendix

Time Zone	Time Zone Name
+08:00	China(Beijing)
+08:00	Singapore(Singapore)
+08:00	Australia(Perth)
+09:00	Korea(Seoul)
+09:00	Japan(Tokyo)
+09:30	Australia(Adelaide)
+09:30	Australia(Darwin)
+10:00	Australia(Sydney, Melbourne, Canberra)
+10:00	Australia(Brisbane)
+10:00	Australia(Hobart)
+10:00	Russia(Vladivostok)
+10:30	Australia(Lord Howe Islands)
+11:00	New Caledonia(Noumea)
+12:00	New Zealand(Wellington, Auckland)
+12:45	New Zealand(Chatham Islands)
+13:00	Tonga(Nukualofa)