



# 220 Series IP Phone User Manual

(firmware :V1.0.7.4)



Escene Communication Co.Ltd

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# **1.Getting Started**

### About

220 Series is next-generation 2-line SIP phone, dual 10/100Mbps auto-sensing Ethernet port with integrated PoE. The 220 SERIES offers excellent voice clarity, call transfer, multi-party conferences, voice mail, Do Not Disturb and Headset etc.

# Feature Highlights:

- HD Voice: HD Codec
- Support unified maintenance and auto upgrade
- Enterprise Phone Book
- Support Headset interface
- Support PoE and AC power adapter
- Support HTTP/TFTP/FTP Auto-provision/TR069 for upgrade software

### **Technical Features**

Item	220 Series		
Screen	grayscale LCD with background light		
	132*48 LCD		
Languago	Multi-Language (e.g.CN/EN/Spain/Portugal/Poland/Turkey/French/Italy		
Language	etc.)		
Line	2 ,Light status: Coming call & Hold(Red flashing);Talking (Red)		
	4Navigation keys (arrow button, OK button, C button)		
	Volume button (multiplex up and down keys)		
	Hands-free		
	Headset		
Eurotion Kove	Message		
Function Reys	Menu		
	Hold		
	Redial		
	Conference		
	Transfer		
VoIP Protocol	SIP 2.0		
Network	HTTP, BOOTP, FTP, TFTP, IEEE 802.1Q, *IEEE 802.1X		
Protocol			
Codec	PCMA,PCMU, G.722 ,G.729 A,G.723.1(5.3Kb/s, 6.4Kb/s),iLBC		

QoS	TOS, Jiffer Buffer, VAD, CNG, G.168 (32ms)		
	2×RJ45 10/100M Ethernet Interfaces (LAN/PC)		
	[WIFI model is only have 1*RJ45 10/100M LAN Ethernet Interface ]		
Network	IP Assignment: static IP, DHCP, PPPoE		
Network	PC port support Bridge and Router		
	DNS SRV,STUN, VPN(L2TP), VLAN/QoS		
	STUN,DTMF(In-band/RFC2833/SIP INFO)		
Voice	Hands-free model available by Full-duplex		
	Separated 9 Level Volume Adjustment		
	Always Forward, Busy Forward, No-answer Forward		
	Hotline line (Immediately/Delay)		
	Call Waiting, Call Queuing		
	Call Forward, Call Transfer, Call Holding, Call Pickup, *Callback		
Eurotian ADD	Redial		
FUNCTIONAFF	Phone directory speed dial, Call record direct dial		
	3-way conference		
	DnD, Blacklist, SMS		
	Voice mail, Voice Prompt, Voice Message		
	P2P(Peer-to-Peer)		
	Call Transfer, Call Pick-Up, Network-Meeting, DND, Call Waiting, Call		
PBX	Hold.		
	Call Barring, Call Back On Busy, Anonymous Call ,Intercom, Paging		
	LDAP		
	Enterprise phone directory, download with server, and it support 800		
	contacts		
	Public phone directory		
	XML Phonebook : Search /Input/ Out put		
Application	Private phone directory: input/output 300 contacts, every contact can		
Application	save 3 numbers and the size of number is 19 byte.		
	Call History(600): every records is 200 with Miss Calls /Received		
	Calls/Dialed Calls.		
	Voice Message, Voice Mail Box, Light of Message.		
	Ringing Update, Input, Del,		
	*we also support to order the other APP.		
	Login the website by password		
	Login the LCD by password		
Socurity	Signaling encryption(RC4)		
Security	Media encryption(RC4)		
	VPN, 802.1X, VLAN QoS(802.1pq), *LLDP		
	TLS, MD5,AES, ROOT/USER Management		
	Upgrade: HTTP/TFTP/FTP Auto-provision/TR069		
Managamant	Configurations: Phone/Http/Auto provision/TR069		
wanayement	Debug: Telnet/Phone/Web		
	Keyboard Setting		

	Power adapter:AC100~240V input and DC 5V/1A output
Power Supply	PoE(IEEE 802.af)
	DSPG Chipset
	Storage Temperature: 0°C ~ 60°C
Specification	Operating Humidity: 10%~90%
	Size:206mm*166mm*59mm
	Net weight: 1.07kg
Contifications	CE、FCC、RoHS、Avaya、Broadsoft、Alcatel、Yeastar、Digium、Metaswitch
Certifications	etc.

Note: "\*" Sign means function has not been published yet.

# **2.Connecting Your Phone**

Your system administrator will likely connect your new 220 Series IP Phone to the corporate IP telephony network. If that is not the case, refer to the graphic and table below to connect your phone.

Item	Counts
IP Phone	1
Handset	1
Handset Cord	1
Power adapter	1 (Phone with PoE without Power adapter)
RJ45 cable	1
Quick Guide	1
Product	1
certification	

1) Open the box of 220 SERIES IP Phone, carefully check the packing list as follow:

2) As shown in figure 2.1, RJ45 cable into the LAN interface; IP Phone will automatically start if IP Phone with POE function.

3) The phone must work together with power adapter without POE support.

4) If you want connect your computer into LAN at the same time, please connect your computer to PC interface of the phone with a RJ45 cable.

#### Figure 2.1 Interfaces of 220 Series



# **3.Phone overview**

### **Understanding Buttons and Hardware**

ou can identify buttons and hardware on your 220 Series from figure 3.1. *Figure 3.1 220 Series* 



	ltem	Description
1	X	Message button: Auto-dials your voice message service.
2		SIP line with VOIP or PSTN.
3	0	Headset button: Toggles the headset on or off.
		When the headset is on, the light is red
4	MENU	Menu button: Allows you to scroll through menus.
5	0-9, *, #	Basic Call Handling: press "#" send out a call by default.

6	Navigation	Allows you to scroll through menus and highlight items. When	
	button	the phone is on-hook, it becomes a shortcut key as follow:	
		"Up": Adjust ring volume, operate with the "down" button	
		"Down": Open "Missed Calls" list:	
		"Left": Open "Received Calls" list;	
		"Right": Open "Dialed Numbers" list.	
7	ОК	OK button: To confirm the action.	
8	С	Back button: Return to the standby interface.	
9	CONFERENC	Conference button: Connect calling / called party to the	
	E	conference.	
10	TRANSFER	Transfer button: Transfer redirects a connected call.	
11	HOLD	Hold button: Put a call on hold.	
12	REDIAL	Redial button: To dial the last number.	
13	Speaker	Speaker button: Toggles the speakerphone on or off.	
	button	et Red, steady: Pick up and enter normal call.	
14	Speaker	Sounds output when hands-free.	
15	Handset	Use to sounds in/output.	
16	Handset cord	Connects between handset and phone.	
17	LCD screen	132*48 characters, grayscale LCD with background light.	
18	Light strip	Red flashing: There are incoming call;	
		Red, steady: Missed Calls, or phone busy;	
19	Hands-free	Sounds input when hands-free	
	microphone		

### **Understanding Phone Screen Features**

This is what your main phone screen might look like: *Figure 3.3 220 Series Phone LCD* 



	Screen	Functions
	displays	
1	Date	Show current date (You can set with different sources, the
		more 7. Web Setting)
2	Time	Show current time (You can set with different sources, the
		more 7. Web Setting)
3	Line status	Show the phone line status:
		1) LAN: Disconnect into network.
		2) Peer-to-Peer : Only Peer-to-Peer call.
		3) Retwork connected normal, but the line is
		not successfully registered.
		4) • Network is OK and the line is available.
		5) Line is turned on DND.

# **4.Basic Call Handling**

You can perform basic call-handling tasks using a range of features and services. Feature availability can vary; see your system administrator for more information. **Note:** The bold type of the following text in table signifies the phone's button.

# **Placing a Call**

If you want to	Then	
Place a call	Pick up the handset	1) You can hear dial tone;
using the		2) Enter a number; 3) Press # button (default).
handset		-or wait 5s (default), then it send the
		number automatically.
Place a call	Press Speaker button	
using a		
speakerphone		
Place a call	Put on your headset,	
using a headset	active Headset button	
	so that the status light is	
	Red, and then do as	
	using speakerphone	
RedialPress <b>REDIAL</b> button to dial the last number,		
-or press Navigation button-Right (in Standby interface)		
"Dialed number", select a number, and press Dial or O		t a number, and press <b>Dial</b> or <b>Οκ</b>
	button.	
Dial from a call	Dial from a call1) Press MENU or OK button > "Call history", you can select	
log	"Missed calls", "Received calls" and "Dialed numbers",	
	- or press <b>Navigation button</b> (in Standby interface) > select	
	"Missed calls" (down	), "Received calls" ( <b>left</b> ) and "Dialed
	numbers" ( <b>right</b> ) );	

Here are some easy ways to place a call on SayHi IP Phone:

--2) Then press **OK** button or **Dial**.

#### Tips

• You can dial on-hook, without a dial tone (pre-dial). To pre-dial, enter a number, and then go off-hook by lifting the handset or pressing **Headset** or **Speaker** button.

• If you make a mistake while dialing, press **C** button to erase digits.

### Answering a Call

You can answer a call by simply lifting the handset, or you can use other options if they are available on 220 Series.

If you want to		Then
Answer with a	1) Your phone ring;	Pick up the handset
handset		
Answer with the		Press Speaker button
speakerphone		
(Non-headset		
mode)		
Answer with the a		Put on headset, press Headset
headset		button so that the status light is
		Red 🖲 , and then do as using
		speakerphone
Auto-answer	1) Press MENU or OK	button > "Function setting" > "Auto
	answer";	
	2) Select "Enable";	
	3) Your phone answers in	coming calls automatically after a few
	rings.	

#### Tips

• Your system administrator configures Auto-answer to use either the speakerphone or a headset. You might use Auto-answer if you receive a high volume of incoming calls.

### **Ending a Call**

To end a call, hang up. Here are some more details.

If you want to	Then
Hang up while using the	Return the handset to its cradle
Handset	
Hang up while using the	Press <b>Speaker</b> button that is Red
speakerphone	
Hang up while using the	Press Handset button, (Do not keep the headset mode)
Headset	

# Using Hold and Resume (Switch Calling Line)

You can hold and resume calls.

If you want to	Then
Put a call on hold	Press HOLD button
Resume a call	Press HOLD button

Tips

• Engaging the Hold feature typically generates music or a beeping tone.

# **Transfer Calls**

Transfer redirects a connected call. The target is the number to which you want to transfer the call.

If you want to	Then
Talk to the transfer	1) Press <b>TRANSFER</b> button;
recipient before	2) Enter number;
transferring a call	3) press " <b>#"</b> (default),
(consult transfer)	-or wait five seconds(default)then transfer the call

# **Using Mute**

With Mute enabled, you can hear others speaking, but the others can't hear from you . You can use mute in conjunction with the handset, speakerphone, or a headset.

If you want to	Then
Toggle Mute on	Press <b>Mute</b> button, then the status light of mute is Red
Toggle Mute off	Press <b>Mute</b> button, then the status light is off

# **Do Not Disturb**

You can use the Do Not Disturb(DND) feature to block incoming calls on your phone with a busy tone (Can also be set to their voice mail or other extension numbers, etc.).

If you want to	Then	
Enable DND on a	1) Press <b>MENU</b> or <b>OK</b> button > "Function setting" > "DND" >	
line	(select line) "Enable"	
	2) All enabled line on the phone would changes to	
	status.	
Disable DND	Press <b>MENU</b> or <b>OK</b> button > "Function setting" > "DND" >(select	
	line) "Disable"	

# 3-way Conference

You can establish a three-party conference, during the conversation three phone parties can communicate with each other.

If you want to	Then
Invite the transfer	1) When the transfer recipient answer the call, press
recipient into a	CONFERCENCE button on your phone;
conference in a	2) Then the held one, transfer recipient and you will be into a
transferring	conference, and the LCD will display conferenc 0:0:10
	status.

Invite the third	1) Press <b>CONFERENCE</b> button in an active call;
party into a	2) Enter the third party number;
conference in a	3) After connected the third party, press CONFERENCE button
active call	again

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# **5.Advanced Call Handling**

### **Using the Phone Book**

You can store a large number of contacts in your phone's directory. You can add, edit, delete, dial, or search for a contact in this directory. However, it only can configure the phone book on web page in 220 Series. For details, you can refer to *7.Web Settings*.

However, you can dial from Phone Book on the phone after setting phone book on web page.

If you want to	Then
Add Contacts	1) Press Phone Book,
	-or press <b>MENU</b> button > "Phone book">"Personal phone
	book>View All",
	-or press <b>OK</b> button > "Phone book">"Personal phone
	book>View All";
	2) Select "Add contact", press <b>OK</b> button;
	3) Use the navigation keys to select content, press <b>OK</b> button to
	set and modify:
	-Name: set the name of contact,
	-NO.1-3: you can set up 3 contacts' numbers,
	-Group: the contacts be divided into different user's groups
	4) Press <b>Save</b> soft key to complete
Add group	1) Press DIR soft key,
	-or press <b>MENU</b> button > "Phone book">"Personal phone
	book>View All",
	-or press <b>OK</b> button > "Phone book">"Personal phone
	book>View All";
	2) Select the "add group" then press <b>OK</b> button;
	3) Use the navigation keys to select content, press OK button
	to set and modify:

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	-Group name: name of the group
	4) Press <b>Save</b> soft key to complete
Modify group	1) Press DIR soft key,
	-or press <b>MENU</b> button > "Phone book">"Personal phone
	book>View All",
	-or press <b>OK</b> button > "Phone book">"Personal phone
	book>View All";
	2) Select the "Modify group" then press <b>OK</b> button ;
	3) Select the group you want to modify, press the <b>OK</b> button to
	set and modify, press <b>Save</b> to save the change
Delete group	1) Press DIR soft key,
	-or press <b>MENU</b> button > "Phone book">"Personal phone
	book>View All",
	-or press <b>OK</b> button > "Phone book">"Personal phone
	book>View All";
	2) Select the "Delete group" or <b>OK</b> button;
	3) Select a group you want to delete, press <b>OK</b> button
View/Edit Contacts	1) Press DIR soft key,
	-or press <b>MENU</b> button > "Phone book">"Personal phone
	book",
	-or press <b>OK</b> button > "Phone book">"Personal phone book";
	2) Select "View ALL",
	-or select a contact who are belong to different group;
	3) Select the contact, press the <b>OK</b> button or Enter (to edit the
	contact's information, press <b>OK</b> button )
LDAP	1)1) Press DIR soft key,
	-or press <b>MENU</b> button > "Phone book"
	-or press <b>OK</b> button > "Phone book"
	2)Select "LDAP", press the <b>OK</b> button.

	3)Select "Search name->name", then input the name ,and
	press OK or Del.
	4)Select "Search number->Number", then input the
	number ,and press OK or Del.
	Pay attention: before you use LDAP function, you need to
	configure LDAP rule in the web configure page.
Call from phone	1) Press DIR soft key,
book	-or press <b>MENU</b> button > "Phone book">"Personal phone
	book",
	-or press <b>OK</b> button > "Phone book">"Personal phone book";
	2) Select "View ALL",
	-or select a contact who are belong to different group;
	3) Select a contact, then press Dial,
	(If there are multiple numbers of one contact, press Dial to
	enter the interface of "call options", select the one you want to call
	and press Dial)

# **Using Call Logs**

Your phone maintains records of your missed, placed, and received calls.

If you want to…	Then
View your call logs	1) Press MENU button > "Call history" > "Missed Calls",
	"Received Calls", or "Dialed numbers"
	2) Use the navigation keys to view the call record information.
Dial from a call log	Please refer to the previous part 4.Basic call handing – Placing a
	call.

Tips: Each call log store up to 20 entries on 220 Series IP phone.

# **6.Keypad Instruction**

SayHi series IP phones are can be configured in two ways. The first you can use the phone keypad where you can settings for you IP phones, the other you can log in to User Options web pages where you can settings for you IP phones.

Use phone keypad to setting. Press **MENU** or **OK** button to the main menu, Use the navigation keys to select menu, press **OK** button to confirm menu selections, press **C** button to delete input information.

**NOTEs:** If the phone didn't have the MENU or other soft keys. Pls don't be your mind, because sometimes it only in other series, like 320/330 series etc. When you want to type "." in setting IP address with keypad, you can press \* button.

### **SIP Account Settings**

220 Series IP phone make calls based on sip accounts, 220 Series IP phones can support 1 independent SIP account, Each account can be configured to different SIP server.

If you want to…		0	Then
Create	an	SIP	1) Select "System setting" > "Advanced setting";
account			2) Enter the password required (The default is 159357);
			3) Select "SIP" > "Account sip";
			4) Select one of the account you want to setting, you can
			configure the following parameters
			-Enable account*: Select Enable
			-Display Name: The name displayed on the screen
			-User Name*: the account matched with the SIP server.
			(extension number),
			-Authen usr: the Authenticated users matched with the SIP
			server. (The default With the same account)
			-user pwd*: the user password matched with the SIP server
			-Description: description of this account,
			-SIP1*: the primary SIP server, By default all calls through the
			server,
			-SIP2: the secondary SIP , When the primary server is

	unavailable ,use the SIP server
	- <b>Refresh time</b> : Registration refresh interval, the minimum value is 20 The default value is 3600.
	5) Set up the above parameters, select "Submit changes" to
	saves settings, Complete the account creation.
	* Note: the parameters with the * mark must be set.
Disable sip account	1) Select "System setting" > "Advanced setting";
	2) Enter the password required (The default is 159357);
	3) Select "SIP" > "Account sip";
	4) Select "Enable account" > "Disable";
	5) Select "Submit changes" to saves settings

# **Network Setting**

lf you want	Then
to	
network setting	1) Select "System setting" > "Advanced setting";
	2) Enter the password required (The default is 159357);
	3) Select "Network", you can configure the following parameters:
	- <b>Type</b> : static IP or DHCP, PPPoE.
	- DNS1: enter IP address of the primary DNS server
	- DNS2: enter IP address of the secondary DNS server
	-Web port: the default Web port is 80,if you change it(for
	example change it to 88),you must use IP and Web port to login
	the web page (for example http://192.168.0.200:88).It will take
	effect on next reboot.
	-Telnet port: the default Telnet port is 23, if you change it (for
	example change it to 2003), you must use IP and Telnet port to
	login the manage page (for example telnet 192.168.0.200:2003).It
	will take effect on next reboot.

# **Customizing Rings and Volume**

If you want to	Then
Change the ring	1) Select "System setting" > "Phone setting" > "Ring type";
tone	2) Press navigation to Select ring tone
Adjust the	1) Select "System setting" > "Phone setting" > "Volume setting"
volume level	2) You can adjust the volume level of following types
	-Ring volume: Phone call ring volume,
	-Handset volume: Handle output volume,
	-Handset mic volume: Handle input volume,
	-Speaker volume: Hands-free speaker output volume,
	-Speaker mic volume: Hands-free input volume,
	-Headset volume: Headphone output volume,
	-Headset mic volume: Headset microphone input volume

### WIFI setting(only WS220N has this item)

Tips: The WIFI ip pl	none support 802.11b/g/n, not support 802.11a.

If you want to		This	
Set WIFI	1)Choose	"Menu">"System	settings">"advanced
	settings">"adva	nced password (default is 1	59357)"
	2) Press navig	ation to choose WIFI setting	js;
	3) Press "ok"	button to change the it Ena	ble or Disable
	-Set WIFI II	P: Default IP: make it defa	ault setting , Modify IP:
	change it what	you want. Mode: mode o	ne: change the wifi IP
	10.0.X.X/8 ;mc	ode two : change the w	ifi IP 1.0.X.X/8 (it can
	prevent IP con	flict)	
	-Current sit	e: the wifi which the phone (	use now and information
	-WPA/WPA2	2: select the encryption mod	e(AES/TKIP)

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	-Site list: search site what you want to connect.
4	) Press "site list", choose one wifi network which the phone
sea	arched
-s	SID: SSID name
-Е	SSID: the mac address of the WIFI network
-C	Channel:the channel of the WIFI network use
т-	ype:the type of the WIFI network
-Е	Encrypt:the encrypt of the WIFI network
-s	Signal:the signal of the WIFI network
	5) Press "SSID",set WIFI which you choose
-Е	Encryption: the encryption of the WIFI network
- <b>H</b>	Key type: the key type of the WIFI network
- <b>H</b>	Key: the password which you should set to allow yourself to
ent	ter the WIFI network

### **View status**

If you want to see the phone status,Press **MENU** button > "view status" ,or press **OK** button > "view status",you can see the detail information of the phone.

If you want to	Then
Network	You can see the network detail information
	of the phone
Lines	You can see the SIP account
software	It include phone Mode software version
	kernel version, Upgrade date, Running time
Expansion	Can check the expansion, if your phone
	support this feature.

### Diagnose

If you want to check the phone hardware function, Press MENU button > "diagnose" , or

press **OK** button > "diagnose",you can check the phone item as below.

	If you want to	Then	
--	----------------	------	--

Keys	You can check the phone keys
LCD	Press'OK'to start,press'C'to exit
Lights	Press'OK'to start,press'C'to exit
Sound	Press' <b>OK</b> 'to start

# 7.Web Settings

We can configure IP Phone more handy through web setting. Press OK button on the keypad of the phone to enter the status page and find out the IP address of IP phone. Enter it (for example <u>http://192.168.0.200</u>) into the address bar of web browser. The default login name root and password 159357.



### **Config Guide**

You can finish the base configuration step-by-step by this guide.



When press 'next', you can configure the Network parameters for the phone,

Wizard	
IP settings	
O DHCP	
Hostname(Option 12):	
Manufacturer(Option 60):	
• Static IP	
IP Address:	192.168.0.248
Netmask:	255.255.255.0
Gateway:	192.168.0.1
O PPPoE	•
Usemame:	
Password:	
MTU:	1500 Default: 1500
DNS Settings	
<ul> <li>Automatic</li> </ul>	
O Manual DNS	
Primary DNS:	192.168.0.1
Secondary DNS:	0.0.0.0
MAC Address	
MAC Address:	00:26:8b:00:ee:a4
Port Management Settings	
HTTP Port:	80
Telnet Port:	23

Socket5 Proxy Server:	• off $\bigcirc$ on	
Server IP:		*
Port:	1080 *	
Anonymous Login:	$\checkmark$	
Username:		
Password:		
Paging Setting		
Paging 1:	$\odot$ off $\bigcirc$ on	
Group IP:	10000	Port:
Paging 2:	● off ○ on	
Group IP:	10000	Port:
Paging 3:	● off ○ on	
Group IP:	10000	Port:
Paging 4:	● off ○ on	
Group IP:	10000	Port:
Paging 5:	● off ○ on	
Group IP:	10000	Port:
Please Note: Changing the default H	TTP Port (80) will requ	ire using the new port
number to access the IP phone web it	nterface. Please note th	at changes require a

After config the network parameter, press next, then you can config sip account for the phone.

SIP Settings			
	Username:	1901	*
	Password:	•••••	*
	SIP Server:	203.156.198.230	
Please note: More SIP co	onfiguration option	ns can be configured u	using the SIP Account menu
	0	option.	

Press Finish, the base configuration of the phone is complete, now you can use the phone

to call with sip.

#### WIFI Setting(only WS 220N has this item )

you can config the WIFI parameters for the phone on the web page.

ite Survey						
ite Survey						
ss Network N	ane (SSID): escen	e				
COTO	DOGTR CI				0: 1	
2210	R221D CP8	nnel	ype	Encrypt	Signal	Select
						Ne
want to sear	ch tha sita vou c	on click the	Site	Survey		
want to ocur	on the one, you e					
e						
Setting						
	a de la companya de l	10.02				
an enter the Wi	reless Network Name	of AP.				
can enter the Wi	reless Network Name	of AP.				
can enter the Wi	reless Network Name	of AP.				
ite Survey	reless Network Name	of AP.				
can enter the Wi ite Survey	reless Network Name	of AP.				
can enter the Wi ite Survey	reless Network Name	of AP.				
can enter the Wi	reless Network Name	of AP.				
can enter the Wi ite Survey ess Hetwork H	ame (SSID) : escen	of AP.				
can enter the Wi ite Survey ess Metwork M	ame (SSID): escen	of AP.				
can enter the Wi ite Survey ess Metwork M SSID	ame (SSID): escen	of AP. e Channel	Туре	Encrypt	Signal	Select
can enter the Wi ite Survey ess Metwork M SSID	ame (SSID): escen	of AP. e Channel	Туре	Encrypt WPA-PSK/WPA2-	Signal	Select
can enter the Wi ite Survey ess Network N SSID escene	ame (SSID): escen BSSID 00:25:86:5c:a3:20	of AP. e Channel 11 (B+G)	<b>Туре</b> АР	Encrypt WPA-PSK/WPA2-	Signal 68	Select
can enter the Wi ite Survey ess Hetwork H SSID escene	ame (SSID): escen BSSID 00:25:86:5c: a3:20	of AP. e Channel 11 (B+G)	Type AP	Encrypt WPA-PSK/WPA2- PSK	Signal 68	Select
can enter the Wi ite Survey ess Hetwork H SSID escene	ame (SSID): escen BSSID 00:25:86:5c:a3:20	of AP. e Channel 11 (B+G)	<b>Туре</b> АР	<b>Encrypt</b> WPA-PSK/WPA2- PSK WPA-PSK/WPA2-	<b>Signal</b> 68	Select
can enter the Wi ite Survey ess Hetwork H SSID escene TP-LINK 47C57C	ame (SSID): escen BSSID 00:25:86:5c:a3:20 00:23:cd:47:c5:7e	of AP. e Channel 11 (B+G) 6 (B+G+N)	Type AP AP	Encrypt WPA-PSK/WPA2- PSK WPA-PSK/WPA2-	<b>Signal</b> 68 48	Select
an enter the Wi ite Survey ess Network N SSID escene TP-LINK_47C57C	ame (SSID): escen BSSID 00:25:86:5c:a3:20 00:23:cd:47:c5:7e	of AP. e Channel 11 (B+G) 6 (B+G+N)	Type AP AP	Encrypt WPA-PSK/WPA2- PSK WPA-PSK/WPA2- PSK	<b>Signal</b> 68 48	Selec
an enter the Wi ite Survey ess Hetwork H SSID escene TP-LINK_47C57C	ame (SSID): escen BSSID 00:25:86:5c:a3:20 00:23:cd:47:c5:7e	of AP. e Channel 11 (B+G) 6 (B+G+N)	Type AP AP	Encrypt WPA-PSK/WPA2- PSK WPA-PSK/WPA2- PSK WDA-PSK/WPA2-	<b>Signal</b> 68 48	Select
an enter the Wi ite Survey ess Hetwork H SSID escene TP-LINK_47C57C escene02	ame (SSID): escen BSSID 00:25:86:5c:a3:20 00:23:cd:47:c5:7e 00:19:e0:ac:50:58	of AP. e Channel 11 (B+G) 6 (B+G+N)	Type AP AP	Encrypt           WPA-PSK/WPA2- PSK           WPA-PSK/WPA2- PSK           WPA-PSK/WPA2- PSK	<b>Signal</b> 68 48	Select
can enter the Wi ite Survey ess Hetwork H SSID escene TP-LINK_47C57C escene02	ame (SSID): escen BSSID 00:25:86:5c:a3:20 00:23:cd:47:c5:7e 00:19:e0:ac:50:58	of AP. e Channel 11 (B+G) 6 (B+G+N) 1 (B+G)	Type AP AP AP	Encrypt WPA-PSK/WPA2- PSK WPA-PSK/WPA2- PSK WPA-PSK/WPA2- PSK	<b>Signal</b> 68 48 38	Select O
can enter the Wi ite Survey ess Hetwork H SSID escene TP-LINK_47C57C escene02	ame (SSID): escen BSSID 00:25:86:5c:a3:20 00:23:cd:47:c5:7e 00:19:e0:ac:50:58	of AP. e Channel 11 (B+G) 6 (B+G+N) 1 (B+G)	Type AP AP AP	Encrypt           WPA-PSK/WPA2- PSK           WPA-PSK/WPA2- PSK           WPA-PSK/WPA2- PSK	<b>Signal</b> 68 48 38	Select O O
an enter the Wi ite Survey ess Network N SSID escene TP-LINK_47C57C escene02 TENDA	ame (SSID): escen BSSID 00:25:86:5c:a3:20 00:23:cd:47:c5:7e 00:19:e0:ac:50:58 00:b0:0c:01:4a:31	of AP. e Channel 11 (B+G) 6 (B+G+N) 1 (B+G) 6 (B+G)	Type AP AP AP AP AP	Encrypt           WPA-PSK/WPA2- PSK           WPA-PSK/WPA2- PSK           WPA-PSK/WPA2- PSK           WPA-PSK/WPA2- PSK           N0	<b>Signal</b> 68 48 38 28	Select
can enter the Wi ite Survey ess Hetwork H SSID escene TP-LINK_47C57C escene02 TENDA	ame (SSID): escen BSSID 00:25:86:5c:a3:20 00:23:cd:47:c5:7e 00:19:e0:ac:50:58 00:b0:0c:01:4a:31	of AP. e Channel 11 (B+G) 6 (B+G+N) 1 (B+G) 6 (B+G)	Type AP AP AP AP AP	Encrypt           WPA-PSK/WPA2- PSK           WPA-PSK/WPA2- PSK           WPA-PSK/WPA2- PSK           WPA-PSK/WPA2- PSK           NO	Signal 68 48 38 28	Select
an enter the Wi ite Survey ess Hetwork H SSID escene TP-LINK_47C57C escene02 TENDA TINGTU0	ame (SSID): escen BSSID 00:25:86:5c:a3:20 00:23:cd:47:c5:7e 00:19:e0:ac:50:58 00:b0:0c:01:4a:31 f4:ec:38:38:99:22	of AP. e Channel 11 (B+G) 6 (B+G+N) 1 (B+G) 6 (B+G) 9 (B+G+N)	Type AP AP AP AP AP AP	Encrypt           WPA-PSK/WPA2- PSK           WPA-PSK/WPA2- PSK           WPA-PSK/WPA2- PSK           WPA-PSK/WPA2- PSK           N0           WPA-PSK/WPA2-	Signal 68 48 38 28 28	Select
an enter the Wi ite Survey ess Hetwork H SSID escene TP-LINK_47C57C escene02 TENDA JINGTV0	ame (SSID): escen BSSID 00:25:86:5c:a3:20 00:23:cd:47:c5:7e 00:19:e0:ac:50:58 00:b0:0c:01:4a:31 f4:ec:38:38:99:22	of AP. e Channel 11 (B+G) 6 (B+G+N) 1 (B+G) 9 (B+G+N)	Type AP AP AP AP AP AP	Encrypt WPA-PSK/WPA2- PSK WPA-PSK/WPA2- PSK WPA-PSK/WPA2- PSK no WPA-PSK/WPA2- PSK	Signal           68           48           38           28           28	Select
an enter the Wi ite Survey ess Hetwork H SSID escene TP-LINK_47C57C escene02 TENDA JINGTU0	ame (SSID): escen BSSID 00:25:86:5c:a3:20 00:23:cd:47:c5:7e 00:19:e0:ac:50:58 00:b0:0c:01:4a:31 f4:ec:38:38:99:22	of AP. e Channel 11 (B+G) 6 (B+G+N) 1 (B+G) 9 (B+G+N) 9 (B+G+N)	Type AP AP AP AP AP AP	Encrypt WPA-PSK/WPA2- PSK WPA-PSK/WPA2- PSK WPA-PSK/WPA2- PSK NO WPA-PSK/WPA2- PSK	Signal           68           48           38           28           28	Select           Image: Image of the select

Choose anyone site and you will see,

WIFI Setting	
This page allows prevent any unauthori	you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could zed access to your wireless network.
Encrytion: Pre-Shared Key Format:	WPA 💙 Passphrase 💙
Pre-Shared Key:	escene2012
	Back

### WIFI Status(only WS 220N has this item )

You can know what the status of the WIFI from this function.

IFI Status		
Wireless Configuration		
Mode:	Infrastructure Client	
Band:	2.4 GHz (B+G+N)	
SSID:	escene	
Channel:	11	
Encrytion:	WPA	
BSSID:	00:25:86:5c:a3:20	
State:	Connected	

#### Network

You can config the network parameters for the phone on the web page.

IP settings	
O DHCP	
Hostname(Option 12):	
Manufacturer(Option 60):	
• Static IP	
IP Address:	192.168.0.248
Netmask:	255.255.255.0
Gateway:	192.168.0.1
O PPPoE	
Username:	
Password:	
MTU:	1500 Default: 1500
DNS Settings	
<ul> <li>Automatic</li> </ul>	
O Manual DNS	
Primary DNS:	192.168.0.1
Secondary DNS:	0.0.0
MAC Address	
MAC Address:	00:26:8b:00:ee:a4
Port Management Settings	
HTTP Port:	80
Telnet Port:	23
Socket5 Proxy Server	

	4000	
Port	1080	
Anonymous Login		
Username	2	
Password		
Paging Setting		
Paging 1	$\textcircled{\label{eq:off} off}$ on	
Group IP		Port:
	10000	
Paging 2	● off ○ on	
Group IP	40000	Port:
	10000	
Paging 3	• off • on	
Group IP		Port:
-	10000	
Paging 4	● off ○ on	
Group IP		Port:
	10000	
Paging 5	● off ○ on	
Group IP		Port:
	10000	

address:portnumner).

Choose network, you will find the following parameters:

Field	Descriptio
IP Setting	
DHCP	Config the phone get ip info from DHCP server
Hostname(Option12)	Set the hostname with the option.
Hostname(Option60)	Set the hostname with the option.
Static IP	Set the IP want you want to set.
IP Address	Config the ip manual for phone
Netmask	Config the netmask manual for phone
Gateway	Config the gateway manual for phone
PPPoE	Use the PPPoE to connect the network.
Username (pppoe)	The pppoe username
Password (pppoe)	The pppoe password
MTU (pppoe)	The mtu for pppoe, default is 1500
DNS Setting	
Automatic	Automatic to get the DNS.

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Manual DNS	Setting the DNS want you want to set.
Primary DNS	The primary DNS server
Secondary	The secondary DNS server
MAC Address	
MAC Address	Display the MAC of the phone
Port Management S	etting
HTTP Port	The default web port is 80,if you change it(for example change it to88),
	You must use IP and Web port to login the web page(for example
Telnet Port	the default Telnet port is 23, if you change it (for example change it to 2003), you must use IP and Telnet port to login the manage page (for example telnet 192.168.0.200:2003). It will take effect on
Socket5 Proxy Serv	er
Socket5 Proxy	Enable/Disable Socket5 Proxy Server.
Server IP	Socket5 Proxy Server ip address.
Port	Socket5 Proxy Server port, default is 1080.
Anonymous Login	Enable/Disable Socket5 Proxy Server login username.
Paging Setting(NOT highest than the oth	E: This feature priority is follow the serial number, one is ners)
Paging1	Enable/Disable Paging feature.
Group IP and Port	Group IP and Port with Paging.

#### PC Port

Normally choose Brigde, if you choose Router , you need to input router IP address , netmask.

PC Port				
(	0	Brigde Router IP Address: Netmask: DHCP Server: Start IP: End IP:	<ul> <li>● off ○ on</li> <li>□</li> </ul>	*  *
Submit				

# Sip Account

The phone attempts to register to the SIP server using the account/registrar data provided by the automatic or manual initialization.

Account1	
SIP Settings	
Enable:	
Account Mode:	VOIP V
Display Name:	1104
Username:	*
Authenticate Name:	1104
Password:	*
Label:	
SIP Server:	192.168.0.7
Secondary server:	
OutboundProxy Server:	
Secondary OutboundProxy Server:	
Polling Interval Time Of Registration:	32 s Default Value: 32s, Range: 20s60s
NAT Traversal:	Disable V
STUN Server:	
BLA:	● off ○ on
BLA Number:	
Call Method:	● SIP ○ TEL
Subscribe Period:	1800 Default: 1800s, Min: 120s
Register Expire Time:	3600 Default: 3600s, Min: 40s
DNS-SRV:	● off ○ on
SIP Transport:	● UDP ○ TCP ○ TLS



Choose Account, you will find the following parameters:

Field	Description
SIP Setting	
Enable	You can choose on/off to enable/disable the line.
Account Mode	You can choose VOIP/PSTN, but this model un-support PSTN, If
	you want to, Pls contact us or buy another model.
Display Name	It is showed as Caller ID when making a phone call
Username	It is a username provide by SIP Server
Authenticate Name	It is authenticated ID for authentication
Password	It is a password provide by SIP Server
Label	Label with this account.
SIP Server	Server for registration, provided by administrator
Secondary server	When the main server can't work, it also can register in this
	secondary server.
Outbound Proxy	Put into the address with the outbound proxy server.
Secondary Outbound	When the main out bound server can't work, it also can use this
Proxy Server	secondary server.
Poling Interval Time	Poling Interval Time Of Registration, default is 32 s.
Of	
Registration	

NAT Traversal	Defines the STUN server will be active or not
STUN Server	Session traversal utilities for NAT.
BLA	Share with the line.
BLA Number	BLA Number
Call Method	This method include SIP and TEL.
Subscribe Period	Subscribe expire time.
Register Expire Time	IP phone automatically registered every time
DNS-SRV	Enable/Disable DNS-SRV.
SIP Transport	There are UDP/TCP/TLS three options
Call	
Amount Of Line Account Used	The line key of account used, default is 2
Do Not Disturb	Enable/Disable Do Not Disturb
Anonymous Call Rejection	Enable/Disable anonymous call.
Use Session Timer	Enable/Disable refresh session function. The device will send an Invite packet to refresh the session during a call if it enable.
Session Timer	The refresh session time interval.
Allow-events	Enable/Disable Allow-events.
Registered NAT	Enable/Disable Registered to NAT
Ring Type	Set ringing type for current account.
UDP Keep-alive Message	The phone periodically sends a UDP packet to keep the port active and to avoid the server to shut down the port
UDP Keep-alive Interval	Default is 30 second.
Security	
SIP Encryption	Enable/Disable SIP encryption.
RTP Encryption	Enable/Disable RTP encryption.
Encryption Algorithm	The encryption algorithm at this time we only have RC4.
Encryption Key	The key with encryption.
RTP Port Range	The port range with RTP.

### **Programmable Keys**

Line Keys: If you do not need more of the lines to use. you can change it to other features, like Speed Dial/ Speed Dial Prefix/ DTMF/ BLF/ BLA/ Paging/ Call Park/ Intercom.

	Mode	Account	Name	Number
Key1: Line	~	Account1 V		
Key2: Line Speed	Dial	Account1 V		
ubmit DTMF	Dial Prefix			
BLF	i î			
Call Pa	irk m			
BLA				

Function Keys: If you do not like the default setting with the function keys feature. You can change it options to what you like or normal use.

	Operation	Account	Name	Number
Up:	Redial 🗸	Account1 V		
Down:	Default 🗸	Account1 V		] [
Left:	DND 🗸	Account1		
Right:	Contacts	Account1		
OK:	Enterprise Phonebook	• Account1 V		
onference:	LDAP 🔽	Account1		
Redial:	Dir	Account1 🗸		
Transfer:	Speed Dial 🗸	Account1 🗸		
Hold:	Call List 🗸	Account1 V		
Service:	Missed Calls	Account1		]
Diretories:	Dialed Calls	Account1		]
Menu:	Menu 🗸	Account1		
Mute:	SMS	Account1 🗸		
Message:	Call Forward	Account1		

NOTE: IF THE PHONE WITHOUT THE KEY, YOU DO NOT NEED TO SET THE KEY.

Submit

Soft Keys: Soft keys is the key with below display in the LCD. You can change it for your mind to the other features in many all kinds of status.

NOTE: In this US Series, it just have two soft keys, so it only can work with one and two

Softkey Key	Idle
Softkey Key Enable:  off on Phone Status: Dial Up ordered by position:	Dial Connecting Transfer Connecting RingBack Transfer RingBack Call Fail Call In Taking Hold Transfer to Conference
Submit	Call Waiting

feature. The three and four is other Series IP phone, e.g. ES320N/ES330N etc.

#### Audio

The IP phone supports the following voice codes: G.722, G.711A, G.711U, G.723, and G.729A.

You can enable/disable the desired codes via Web interface. Please contact your system administrator for more details about the codes.

To enable/disable the codes:

1) Choose Audio-> Audio Codes

Audio	
Ione	
Dial Tone: DialTone 2 😪	Ring Volume (0~9): 1
Output Volume (1~9)	Intput Volume (1~7)
Handset Volume: 5	Handset Mic Volume: 3
SpeakerPhone Volume: 5	SpeakerPhone Mic Volume: 3
Headset volume: 5	Headset Mic Volume: 3
Voice Codec	
Payload Length: 20 🗸 ms	High Rate of G723.1:
Other	
VAD:	Echo Suppression Mode:
Ring	
Ring Type: Ring1 💙	Delete
Uploading Ring Tone	
Browse	
Upload Cancel	
(Please upload a ring tone with G711 audio	
county, and the sile must less than Jook ))	
G722	
Audio Codecs: Up G711A G711H	di sebleCode
enableCode Down G729A	
G723	
Submit	

2) Use the navigation keys to highlight the desired one in the Enabled/Disable Codes list,

and press the >>/< to move to the other list.

3) Choose Submit to save the change.

Of course, you can control the voice bulk in this choose.

### **Phone Book**

#### Group

You can add, edit and delete group in a phone book on web page of 220 SERIES.

1) Click "PhoneBook" > "Group",



If you want to add a Group, you just ought to click 'Add Group' .

You can edit an existed Group by click 4.

You can delete an existed Group by click m, if you want to delete all Groups, you just ought to click 'Delete All Group'.

 When you add a group or edit an existed group, you can set several parameters as follow:

Group	
Group Submit Canc	ID: 1 V Description: Name:
Group	
ID	Serial number of a group
Description	Description of a group
Group Name	Name of a group

#### Contact

You can add, edit and delete contact in a phone book on web page of 220 SERIES. The phonebook can storage 300 contact entry.

1) Click "PhoneBook" > "Contact",



If you want to add a Group, you just ought to click 'Add Contact'.

You can edit an existed Contact by click 🧖.

You can delete an existed Contact by click m, if you want to delete all Contacts, you just ought to click 'Delete All Contact'.

 When you add a Contact or edit an existed Contact, you can set several parameters as follow:

Contact	
Serial Number	Serial number of a contact

First Name	The First Name of a contact
Last Name	The Last Name of a contact
Mobile Number	The Number1 phone number of a contact
Office Number	The Number2 phone number of a contact
Other Number	The Number3 phone number of a contact
Group	You can assign a contact to a specific group. If there isn't any
	group set on the phone, the group is None by default.
Account	Select a SIP account relating this contact, that is you can dial to
	the contact from this SIP account.

# LDAP

#### 1). Overview

LDAP stands for Lightweight DIRectory Access Protocol which is a client-server protocol for accessing a DIRectory service. LDAP lets you locate organizations, individuals, and other resources such as files and devices in a network, whether on the Internet or on a corporate intranet, and whether or not you know the domain name, IP address, or geographic whereabouts.

An LDAP DIRectory can be distributed among many servers on a network, then replicated and synchronized regularly.

# 2). Configuration

Please note that LDAP Phonebook support on

ES620\ES410\ES330\ES320\ES310\ES210, the version must be V2.2.3.1-2210 and higher, then access to the web "PhoneBook>LDAP page, you can find the configured option is like following picture. the detail configure in the appendix.



### BanList

You can add, edit and delete banlist in a phone book on web page of 220 SERIES..

1) Click "PhoneBook" > "BanList",

ID Operation Name Phone Description Account	ription Account	Phone	Name	Operation	ID

If you want to add a BanList, you just ought to click 'Add BanList'.

You can edit an existed BanList by click 🦉.

You can delete an existed BanList by click m, if you want to delete all BanLists, you just ought to click 'Delete All BanList'.

2) When you add a BanList or edit an existed BanList, you can set several parameters as follow:

BanList

Serial Number	Serial number of a BanList
Description	Description of a BanList
First Name	The First Name of a ban contact
Last Name	The Last Name of a ban contact
Mobile Number	The number1 phone number of a ban contact
Home Number	The number2 phone number of a ban contact
Office Number	The number3 phone number of a ban contact
Account	Select a SIP account relating this ban contact, that is the ban
	contact can't dial to this SIP account.

### **Enterprise Phonebook**

You can download Enterprise Phonebook from this web interface. But you should do second develop on the sip server to enable this function completely.

If the sip server no add some function to hold this option ,this option can be userd.

Enterprise Phonebook		
Auto	Download Enterprise Phonebook	
Server IP:		
Password:		
Submit		

#### Advance

# **Phone Setting**

You can use phone setting to set the time, qos, port Mirroring for the phone.

Phone Setting	
Basic	
Called No AnswerTime:	✓ 70 s (Min:20, Max:99)
DTMF :	● RFC 2833 ○ Inband ○ SIP Info ○ Auto
Pound Send Mothod :	● # ○ %23
RFC 2833 PayLoad:	101
BackLight:	○ off ○ Always On ● timer 60 s (Min:1, Max:255)
Keyboard Lock:	Disabled V
PSTN Setting	
PSTN Ring Type:	O PSTN Ring  VOIP Ring
PSTN Prefix Code:	
VOIP Prefix Code:	
Hook:	○ off ● on
Hook Frequency:	500 (Default:500 min:100 max:1600 )
Qos	
SIP Qos:	26 (0-63)
Voice Qos:	46 (0-63)
Call	
Hot Line Function:	• off $\bigcirc$ Immediately Hot Line $\bigcirc$ Delay
Hot Number:	
Call Waiting:	○ off ● on
Call Waiting Tone:	● off ○ Play on currently active device Freqency: 10 s (5-60)
Auto Answer:	• off $\bigcirc$ on $\bigcirc$ Turn On But Filter This Group: NONE $\checkmark$
Auto Answer Mode:	● Hands Free ○ Handle ○ Headset
Pickup Function:	○ off ● on
Pickup Code:	123
Message:	*97
Fuzzy Search:	● off ○ on
Booking Voicemail:	No 🗸
Play Voicemail Tone:	● off ○ on
Miss Call Display:	○ off ● on
Call List Save:	○ off ● on
DND Softkey:	○ off ● on
Play Hangup Tone:	○ off ● on
Transfer Code :	● off ○ on Number:
Conference Exit Result:	● Disconnect All ○ Others Remain Connected
Return code when refuse:	603(Decline)
Return code when DND:	603(Decline)
Flash hook time(<800ms):	500

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VOIP Call Forward	
Always :	● off ○ on Number:
If Busy :	● off ○ on Number:
If No Answer:	● off ○ on Number:
Ring Frequency:	15 (Default: 15s, Max: 15s)
Set Time Mode :	○ SNTP ● SIP Server ○ PSTN ○ Manual
SNTP Server:	sparky.services.adelaide.edu.au
۲	sparky.services.adelaide.edu.au 🗸 List
0	sparky.services.adelaide.edu.au Manual
Update Interval(seconds):	600
Davlight Savings Time Mode	Auto
The second	
I ime Format:	● 24 Hour ○ 12 Hour
Date Format:	
Time Zone-GMT:	GMT+08:00 Beijing
Manual Setting	
2000 Year 1 M	Ionth 1 Day 0 Hour 0 Minute 0
Second	
Other	
QoS:	40 Diff-Serv or Precedence
QoS: Check When Upgrade Software:	40 Diff-Serv or Precedence Check BLF Light: On
QoS: Check When Upgrade Software: Headset Mode:	40       Diff-Serv or Precedence         Check       BLF Light:         Image: Seat Mode
QoS: Check When Upgrade Software: Headset Mode: Ring Type On Seat Mode:	40       Diff-Serv or Precedence         Check       ✓ BLF Light: On ✓         ● Normal ○ Seat Mode         ● Headset ○ Speaker

When used Phone Setting option, you can set several parameters as follow:

Phone Setting	
Basic	
Called No Answer	When it has coming call and enable this feature, the caller will
Time	be request time out in the stipulated time.
DTMF	The DTMF transmitted mode, include RFC2833,Inband,SIP
	Info, Auto
Pound Send Method	When you to use the code looks like #28#123 or %23123, you
	need to setting this feature.
RFC 2833 Pay Load	Default is 101, RTP Payload for DTMF Digits, Telephony Tones
	and Telephony Signals
Back Light	The backlight of the phone LCD
Key Board Lock	Lock with the phone LCD, when you enable the right
	password, it will auto disable this feature. if you want to use
	again, you need to open it again in the web management. Tips:
	the password is the same with the phone LCD. Default is

	159357. The Menu key can open it.	
	[Menu Key]: only lock the Menu function, others can normal	
	work.	
	[Function Keys]: include Menu/Redial/Transfer/Hold etc. you	
	just can use the number keys and speaker key.	
	[All keys]: as the name implies.	
	[Lock & Answer]: Auto open Auto-answer and lock the keys,	
PSTN Setting [If your	phone does not support PSTN feature, you can ignore this	
option]		
PSTN Ring Type	You can set the ringing type use PSTN or VOIP.	
PSTN Prefix Code	Input the prefix code with PSTN	
VOIP Prefix Code	Input the prefix code with VOIP	
Hook Frequency	Setting the frequency with hook.	
QoS		
Sip QoS	The range is 0~63,default is 26	
Voice QoS	The range is 0~63,default is 46	
Call		
Hot Line Function	It include Immediately Hot Line and Delay Hot Line	
Hot Number	Input the number what you want to.	
Call Waiting	When someone is coming a call after the call is talking, the	
-	second call will be in the queue.	
Call Waiting Tone	Select the frequency with the tone call waiting.	
Auto Answer	Auto-answer the coming call, it also can set with group.	
Auto Answer Mode	Include Hands Free / Handle / Headset.	
Pickup Function	Someone can pickup you call when you talking with some	
	body.	
Pickup Code	The code with someone want to pickup your call.	
Message	The code with voice message.	
Fuzzy Search	Fuzzy search someone with the phone book in the idle.	
Booking Voice Mail	Open this feature, the phone light(Message) will be bright	
	when it get message.	
Play Voice Mail Tone	Open this feature, it will be ringing when it get message.	
Miss Call Display	Turn on or off the display with Miss call in the phone LCD.	
Call List Save	Save the call list into the phone.	
DND Soft key	Display or not in the LCD.	
Play Hang up Tone	The tone with hang up in busy.	
Transfer Code	The code with transfer.	
Conference Exit	Conference originator hang up the phone, hang up two ways	
Result	of it.	
Return Code When	Select the code you want to with the server.	
Refuse		
Return Code When	Select the code you want to with the server.	
DND		

Flash hook time	The time with the flash hook.	
VOIP Call Forward		
All ways	All ways transfer the call to others.	
If busy	If the phone was busy working, the call will be transfer to	
	others.	
If No Answer	If the phone was no answer, the call will be transfer to others.	
Ring Frequency	The ring frequency with the VOIP Call Forward.	
Set Time Mode		
Set Time Mode	The mode of set time for phone, include SNTP/SIP Server/PSTN/Manual	
SNTP Server	You can select in the list or input owner server address.	
Update Interval	The update interval with SNTP.	
Daylight Saving Time Mode	Enable/disable the DST for the phone	
Time Format	You can use 24 hour time format or 12 hour time format	
Date Format	Normal format with date you can select in the list.	
Time Zone-GMT	You can select different time zone for the phone	
Manual Setting		
Manual Setting	This used to manual set time for the phone	
Other		
QoS	The QoS priority, support diff-server and precedence	
Check When	Checking the upgrade software with MD5.	
Upgrade Software		
BLF Light	The light switch with BLF.	
Headset Mode	Select headset mode with normal or seat.	
Ring Type On Seat	Select ring type mode with headset or speaker.	
Mode		
Network Packet	When select on, then you can capture the phone's packet use	
Mirroring	notebook which connect to pc port of the phone	

# **VLAN Setting**

You can add the phone and PC to different VLAN used VLAN Setting option.

oice	PC
Enable VLAN:	Enable VLAN:
VID: 0 (0~4094)	VID: 0 (0~4094)
Priority: 0 👽 (0~7)	Priority: 0 👽 (0~7)

When used VLAN Setting option, you can set several parameters as follow:

VLAN Setting	
Enable VLAN	You can enable/disable vlan for phone and pc
VID	The VLAN you want the phone or pc to join
[LAN/PC Port]	

### **VPN Setting**

VPN Setting		
	Enable VPN:	
L2TP	VPN Type:	L2TP 💌
	VPN Server Addr:	
	VPN User Name:	
	VPN Password:	
Submit		

IF you need to setup a VPN Setting, you should fill below options.

When used VPN Setting option, you can set several parameters as follow:

VLAN Setting	
Enable VPN	You can enable/disable VPN for phone and pc
VPN Type:	There is one choose you can choice.
VPN Server Addr	VPN server's ip
VPN User Name	VPN user's name
VPN Password	A password be used for authentication

# **Dial Plan setting**

If you want to setup a dial plan, you can click "Dial Plan".

		Di al	Length: 19	
		No Dial	Timeout: 5	
ID	Operation	Prefix	IP Address	Description
1		209	192, 168, 2, 83	

Click "add rule" to entry this interface.

ID:	1 🗸	Description:	
IP:		Port(Default 5060):	5060
Prefix:			
Called Insert Number:	Disable 💌	Called Delete Number:	Disable 🚩
Position:		Position:	
Number:		Length:	
aller Insert Number:	Disable 🗸	Caller Delete Number:	Disable 🗸
Position		Position	
Number:		Length	
	(Note: When you w code first, after and length of the	ant to add code and delete at the that base on the number you add, delete code.)	same time, you can add decide the position

Submit	Cancel
--------	--------

Dial Plan Se	etting	
ID		Dial Plan ID
IP		The ip of a phone which you want to call
prefix		The number which you need to press actually if you want to call
		the phone
Called	Insert	There have two option, Enable or Disable.
Number		
Position		Which position you want insert the number
Number		What number you want to insert
Called	Delete	There have two option, Enable or Disable.
Number		

(Note: When you want to add code and delete at the same time, you can add code first, after that base on the number you add, decide the position and length of the delete code.)

### **IP Strategy**

You can use IP Strategy feature to make a list which line you want to allow make a call for your.

e.g. As following picture you can see it has 192.168.0.248 in the list. When you open this feature. It means you just allow come from this IP address meeting

ID	Operation	IP Address	Description	Account
1		192.168.0.248	A	Auto

# **Global SIP**

You also can setup the SIP server on Global SIP.

val SIP	
SIP Settings	
SIP Server:	
Secondary server :	
P-Asserted-Identity:	○ off ● on
SIP Session Timer(seconds) T1 :	0.5
SIP Session Timer(seconds) T2 :	4
SIP Session Timer(seconds) T4 :	5
Proxy Server	
OutboundProxy Server :	
STUN	
STUN Server:	
Others	
Register Expire Time:	3600 s Default: 3600s, Min: 40s
Local SIP port:	5060 (Default: 5060)
SIP Transport:	● UDP ○ TCP ● TLS
RTP Port Range:	10000 10128
SUB Expire Time :	3600
Affiliated Port:	○ off ● on

# **Phone Maintenance**

# Log

If you need to catch a debugging Level log, you need setup on this interface.

O No Record	
• Call:	Debugging Level 🗸
○ SIP	
O LCD	
I as send to somer-	
Log send to server.	© off ⊖ on
Log Server Address:	: 514

You can change the password used to login phone GUI in Password option.

assword		
	<b>Username</b> :	root
	Old Password:	
	New Password:	
	Confirm Password:	
	Administrator	O User

In Password option, you can set several parameters as follow:

Password	
Username	The login username of the web page
Old Password	The old password used to login of the web page
New Password	The new password used to login of the web page
Confirm Password	The new password used to login of the web page
Administrator	Login phone web page used administrator privileged
User	Login phone web page used general user privileged

### **Default Setting**

You can load the phone to the factory default setting in default setting option.

nen crick chis b	atton this equipment will restore to the
efault status	
av Attention . It wi	11 take effect on peyt reheat
ay Attention: It wi	ll take effect on next reboot.
ay Attention: It wi	ll take effect on next reboot.
ay Attention: It wi	ll take effect on next reboot.

Press the 'Reset to Factory Setting' option ,the phone will load to factory default setting on next reboot.

# **Auto Provision**

When you open the auto provision function, the phone will auto provision if the phone detect a higher software or kernel which are put on the software server. The detail information about auto provision you can see the appendix.

Auto Provision:	● on ○ off
Option:	66 (Default :66, Min:1, Max:254)
Protocol:	TFTP V
Software Server URL:	TFTP://192.168.0.201
Username:	
Password:	
	Auto Download Software
$\checkmark$	Auto Download Kernel
$\mathbf{\nabla}$	Auto Download Config File
	Broadsoft Compatibility
$\mathbf{\nabla}$	Auto Download Expansion
$\checkmark$	Auto Download Enterprise Phonebook
$\checkmark$	Auto Download Personal Phonebook
$\mathbf{V}$	Booting Checked
Disable the phone while booting checking:	● off ○ on
Auto Provision Freqency:	168 Hour (Default :7 days, Max:30 days)
Auto Provision Time:	None V
Auto Provision Next Time:	Mon May 20 11:29:55 2013 Reset Timing
AES Enable:	● off ○ on
AES Key :	
	Auto Provision Now

#### Submit

When use auto provision, you can set several parameters as follow:

Auto Provision	
Auto Provision	You can enable/disable auto provision by select on/off
Protocol	The protocol use for auto provision, it include tftp/http/ftp
Software Server URL	The server address of the auto provision
Username	The username provide by provision server
Password	The password provide by provision server
Auto Download Software	This used to auto download software from server
Auto Download Kernel	This used to auto download kernel from server
Auto Download Config File	This used to auto download config file from server
Broadsoft Compatibility	This used to compatible the broadsoft format's config file
Auto Download Expansion	Expansion must the phone support this feature. You can
	make sure or not the phone model is it support with "P",
	e.g. ES330N-E
Auto Download Enterprise	This used to auto download Enterprise Phonebook from

Phonebook	server
Auto Download Personal	This used to auto download personal phonebook from
Phonebook	server
Booting Checked	This used to checked the auto provision when phone
	booting
Disable the phone while	Off or On
booting checking	
Auto Provision Frequency	This used to set the time interval for auto provision
Auto Provision Time	This used to the specific time for auto provision
Auto Provision Next Time	Reset the Auto Provision Next Upgrading time.
AES Enable	You can enable/disable AES encrypt for auto provision
AES Key	The key of the AES
Auto Provision Now	This used to do auto provision immediately

# TR069

When the telegraphy want to test IMS, you can use this function.

R069	
Cwmp Enable	
Protocol: HTTP	
Cwmp Host URL: http://183.62.12.23:8	012/service.tr069
Cwmp Port: 8012	
Serial Numberl: 00100400YJ0120500000	00268b0019de
Username:	
Password:	
Password	
New Password:	
Confirm Password:	Alter Password

# **FTP Upgrade**

You can upgrade the software, kernel and configure file for the phone use ftp.

TTP Upgrade (Attention: Do not cut off the electricity when Upgrade!!)	
Server IP:	
Filename:	
Username:	
Password:	
Software Upgrade: Upgrade	
Kernel Upgrade: Kernel Upgrade	
Note: It's no necessary to input filename when backup.	
Configuration: Update Backup	
Phone Book: Update Backup	
EXT Module: Update Backup	

When use ftp upgrade, you can set several parameters as follow:

FTP Upgrade	
Server IP	The ip address of the ftp server
Filename	The name of the file want to download from ftp server
Username	The username provide by ftp server
Password	The password provide by ftp server
Software Upgrade	Used to upgrade the software of the phone
Kernel Upgrade	Used to upgrade the kernel of the phone
Configuration	You can used update/backup to update/backup the configure file
	of the phone
Phone Book	You can used update/backup to update/backup the phonebook of
	the phone
EXT Module	You can used update/backup to update/backup the expansion of
	the phone

# **TFTP Upgrade**

You can upgrade the software, kernel and configure file for the phone use tftp.

TFTP Upgrade (Att	ention: Do not cut off the electricity when Upgrade!!)
Server IP:	
Filename:	
Software Upgrade:	Upgrade
Kernel Upgrade:	Kernel Upgrade
Note	: It's no necessary to input filename when backup.
Configuration:	Update Backup
Phone Book:	Update Backup
EXT Module:	Update Backup

When use tftp upgrade, you can set several parameters as follow:

TFTP Upgrade	
Server IP	The ip address of the tftp server
Filename	The name of the file want to download from ftp server
Software Upgrade	Used to upgrade the software of the phone
Kernel Upgrade	Used to upgrade the kernel of the phone
Configuration	You can used update/backup to update/backup the configure file
	of the phone
Phone Book	You can used update/backup to update/backup the phonebook of
	the phone
EXT Module	You can used update/backup to update/backup the expansion of
	the phone

# **HTTP Upgrade**

You can upgrade the software, kernel and configure file for the phone use http.

HTTP Upgrade (Attention	a: Do not cut off the electricity when Upgrade!!)
HTTP Upgrade:	
Select a File:	Browse
Software Upgrade:	Upgrade
Kernel Upgrade:	Kernel Upgrade
Configuration:	Upload Download
XML PhoneBook:	Upload Download
Vcard:	Upload Download
EXT Module:	Upload Download
Log:	Download
All Config File:	Download

When use http upgrade, you can set several parameters as follow:

HTTP Upgrade	
Select a File	Browse the software/kernel/config file you want to upgrade from
	http
Software Upgrade	Used to upgrade the software of the phone
Kernel Upgrade	Used to upgrade the kernel of the phone
Configuration	You can used upload/download to upload/download the configure
	file of the phone
XML Phone Book	You can used upload/download to upload/download the
	phonebook of the phone
VCARD	One of the format with Phone book
EXT Module	You can used update/backup to update/backup the expansion of
	the phone
Log	Debugging with IP phone
All Config File	Include Phone Book/ Config / Extern / Log/ Enterprise Phone
	Book

### Reboot

You can use reboot option to reboot the phone.



When you press 'Reboot', the phone will reboot.

# **Phone Status**

You can see the currently status of the phone when use Phone Status option.

Phone Status	
System Run Time	0 Day 5 Hour 15 Minute 53 Second
Account 1:	Unregister
Account 2:	Registered
Network Status	
LAN Connection:	Dynamic
LAN IP Address:	192.168.0.138
Netmask:	255.255.255.0
Gateway:	192.168.0.1
Primary DNS:	210.21.4.130
Secondary DNS:	221.5.88.88
VPN IP Address:	
PC IP Address:	
PC Netmask:	
Device Type:	Bridge
DHCP Server:	off
Hardware	
Hardware ID:	1
Refresh	

# System Info

You can see the system information when used System Info option.

Phone Model:	IP220
Software Version:	V2.2.8.6-3279
Hardware Version:	V2.x.x
Kernel Version:	V2.6.3
AutoProvision Server URL:	TFTP://192.168.0.201
TFTP Server IP:	TFTP://192.168.0.201

Attention:

On this interface ,you can see the software and kernel which we used for test and this user\_manual is written base on this software and kernel.

This software version is V2.2.8.6-3279 This kernel version is v2.6.3

#### About

You can see the phone model when used About option.



# 8.Appendix:

# Auto Provision

# 1.Bulid TFTP/HTTP/HTTPS/FTP Server

### **1.1 The Auto Provision Working principle**

1. Bulid the FTP/HTTP/HTTPS/FTP Server

2. Place the Auto Provision related file(configure file/software/kernel) in server

3. The phone according to the the server URL and download the file to update the

phone data or upgrade software/kernel

4. You can do 3 way to start Auto Provision:

- \* Booting Checked: Auto Provision when the phone booting after reboot.
- \* Auto Provision Now manually.
- \* timing Auto Provision

### 1.2 Bulid TFTP/HTTP/HTTPS/FTP Server

The auto provision Server don't distinguish the model of server, it only need the server can support TFTP/HTTP/HTTPS/FTP protocol.

If you already build TFTP/HTTP/HTTPS/FTP Server, so you only need place some related auto provision file in server and config the parameters in auto provision web page.

If you don't have TFTP/HTTP/HTTPS/FTP Server,we can suggest you to download the server in Internet by yourself.

Tftp server:cisco tftp or tftpdwin

Ftp server: Serv-U Server

Http server: hfs server

If you finished build your TFTP/HTTP/HTTPS/FTP Server, you can follow do this:place some related auto provision file in server and config the parameters in auto provision web page.

# 2. Place the configure file/software/kernel in Server

When the software or kernel auto-provision is enabled and want to run, IP

Phone will check the software and kernel version at first, so we need make some pre-configuration on the provisioning server.

#### 2.1 Auto Provision for Software

1. Create a notepad file named "F000XXX.cfg" or "FD000XXX.cfg" (the "XXX" is decided by the model of the IP phone you are using, for example, if the model is ES620, the file name is "F000600.cfg",the "FD" is decided by the model of the IP phone with 'N', for example,ES320N); \*Named rule of the file:

F000600.cfg: for ES620, ES610 and DS622; F000400.cfg: for ES410 and DS412; F000300.cfg: for ES310 and DS312; F000200.cfg: for ES210 and DS212. F000320.cfg: for ES320 F000330.cfg: for ES330 F000118.cfg: for HS118 F000108.cfg: for HS108. F0WS620.cfg: for WS620 F0WS320.cfg: for WS320

FD000600.cfg: for ES620N FD000400.cfg: for ES410N FD000330.cfg: for ES330N FD000320.cfg: for ES320N FD000220.cfg: for ES220N FD000110.cfg: for IP115 FD000120.cfg: for IP125 FD000100.cfg: for US101N and US102N and US103N FD000108.cfg: for HS108PZ FD0WS320.cfg: for WS320N FD0WS220.cfg: for WS220N FD0WS100.cfg: for WS102N

Open the notepad file "F000XXX.cfg" or "FD000XXX.cfg" and write the new software name in it, the software file name format must like this:S(2)\_Phone Model\_version+Version Number. the "S2\_" decided by the model of the IP phone with 'N',for example, ES620: the software name is like "S\_ES620\_version2.2.7.5-3077" ES320N: the software name is like "S2\_ES320N\_version1.1.5.0-1147" Other Model and so on.

Write down the new version you want to upgrade and save it on your provisioning server.

\*Please note that if the version is not older than (and same as) the one on your phone, auto-provision of your software would be not available.

3. After it, upload the new software to the TFTP/HTTP/HTTPS/FTP provisioning server and complete the pre-configuration steps.

#### 2.2 Auto Provision for Kernel

1. Create a notepad file named "K000XXX.cfg" or "KD000XXX.cfg" (the "XXX" is decided by the model of the IP phone you are using, for example, if the model is ES620, the file name is "K000600.cfg", the "KD" is decided by the model of the IP phone with 'N', for example,ES320N);

\*Named rule of the file:

K000600.cfg: for ES620, ES610 and DS622 and WS620; K000400.cfg: for ES410 and DS412; K000300.cfg: for ES310 and DS312 and ES320 and HS118 and WS320; K000200.cfg: for ES210 and DS212 and HS108; K000330.cfg: for ES330; K000100.cfg: for US101 and US102 and US103. KD000320.cfg: for ES320N and WS320N KD000320.cfg: for ES330N KD000220.cfg: for ES220N and WS220N KD000100.cfg: for US101N and US102N and US103N and WS102N KD000108.cfg: for HS108PZ KD000110.cfg: for IP115 KD000120.cfg: for IP125 KD000400.cfg: for ES410N KD000600.cfg: for ES620N

2. Open the notepad file "K000X00.cfg" or "KD000XXX.cfg" and write the new kernel name in it, for example,

K\_ulmage\_200\_version2.2.9.bin: for ES210 and DS212 and HS108;

K\_ulmage\_300\_version2.2.9.bin: for ES310 and DS312 and ES320 and HS118 and WS320 and ES320 and ES330;

K\_ulmage\_400\_version2.2.9.bin: or ES410 and DS412;

K\_ulmage\_600\_version2.2.9.bin: for ES620, ES610 and DS622 and WS620;

K2\_uImage\_100N\_version2.6.3.bin: all the model of the IP phone with 'N',

ES320N and ES220N and ES330N and so on

Write the new version you want to upgrade and save it on your provisioning server.

\*Please note that if the version is not older than (and same as) the one on your phone, auto-provision of your kernel would be not available.

3. After it, upload the new kernel to the TFTP/HTTP/HTTPS/FTP provisioning server and complete the pre-configuration steps.

### 2.3 Auto Provision for Configure file

#### 1. Name of configuration file:

The configuration file on the provisioning server is named as the MAC address of IP phone itself. Escene's IP phones support two different configuration files for auto-provision:

1. Normal Configuration file:

Normal Configuration file is the configuration file of your Escene IP phone. You can download it from your phone (You can see the following chapter to see how to download a configuration file from Escene IP hone) and modify by yourself.

- If the phone model with 'N', for example ES320N, please see this: The Normal Configuration file can separate two part:
  - Global parameters configuration file: for example Audio Codecs, Volume, Server URL and so on,make these global parameters to a file,and can use by different model(model name come form web or LCD menu),the filename format must be sys\_model.xml

ES320N: sys\_ES320N.xml ES220N: sys\_ES220N.xml

	<ol> <li>Image: A start of the start of</li></ol>	
sys_	_ES320N.	xm1

*Reference XML documents:* 

 Private parameters configuration file : for example Account configuration that different phone, the filename format must be MAC.xml, for example 00112233445.xml.

S



Reference XML documents: 00112233

• If the phone model don't with 'N', or example ES620, please see this: If the IP phone's MAC address is 00:11:22:33:44:55, the normal configuration file of it should be **001122334455.xml**.



Reference XML documents :

2. Broadsoft Configuration files:

Broadsoft Configuration files support the format of Broadsoft IP-PBX. However, you can use them for provisioning. There are two files should be set on your provisioning server, they are also named by the MAC address of your phone

1. **001122334455.cfg**: a configuration file for system settings, for example, network, audio and so on.

3. How to create the Configuration file

2. Download a configuration file from your phone:

You can download a configuration file from your phone by HTTP as follow:

- Open the web page of your IP phone, click "Phone Maintenance">"HTTP Upgrade";
- 2. Then click "Download" of Configuration:

P Upgrade:		
Select a File:	N	浏览
Software Upgrade:	Upgrad	
Kernel Upgrade:	Kernel Upgrade	
Configtation:	Upload Download	
PhoneBook:	Upload Download	
EXT Module:	Upload Download	

- If you want to use this file to auto-provision, you just need to modify it by yourself and rename it to the MAC address of your IP Phone with .xml suffix.
- 3. create the Configuration file Manually If you want to create the Configuration file Manually,you must read this *reference documents about the* Configuration file format detail and you may know the what mean parameters of the Configuration file:



#### 2.4 Auto Provision for Expansion

The Extern.xml includes the settings of programmable buttons on the phone and all Expansion Modules. All the phones can download the settings from a same file and they will have the same settings (for example, Speed-dial, BLF and so on).

\*You can't rename the file on the provisioning server. The file name is fixed to **Account1\_Extern.xml**.(Account1 is the first account you register)



#### 2.5 Auto Provision for Enterprise Phonebook

Escene IP phone supports Enterprise Phonebook and Personal Phonebook.They use same XML format,you can see the reference documents.

#### 4. Enterprise Phonebook:

Enterprise Phonebook is used for all staffs in your office. All phones will download a common phonebook for all staffs. The file's name must be *Enterprise\_Phonebook.xml* on your provisioning server and you can not rename it.

Enterprise\_Phonebook.xml

Reference XML documents:

#### 2.6 Auto Provision for Personal Phonebook

#### 5. Personal Phonebook:

Personal Phonebook is individual for each IP phone. The file on your provisioning server is named by the first account of your IP phone. If the IP phone's first account is 1287, the Personal Phonebook of this phone is **1287\_Phonebook.xml**.

Reference XML documents: <sup>1001\_Phonebook. xml</sup>

# 3.Configure parameters in Auto Provision Web page

#### 3.1 Auto Provision TFTP using DHCP Option 66

The following steps will descript auto-provision by TFTP. You also can use HTTP and FTP for auto-provision with our phones.if you don't use option 66, you can jump to 3.2 section.

DHCP Server: (Microsoft Windows 2003 server)

- 3) Start up the "DHCP Management Console";
- 4) Expand the DHCP scope which will contain the phones

<u>64</u>

- 5) Right-click on the "Scope Options" node
- 6) Select "Configure Options"
- 7) In the "General" tab, scroll down the list of options and identify the option labeled "066 Boot Server Host Name"
- 8) Enable the "066 Boot Server Host Name" and enter the string value according to the examples discussed previously

string value:

192.168.0.201(TFTP Server IP Address);

9) Click the "OK" button

#### 3.2 Configure parameters in Auto Provision Web page

#### • Login in IP Phone web:

- 1. Input the IP Phone's IP Address in browser;
- 2. Enter user root and password 159357 then open the web page;
- 3. Click "Phone Maintenance" and select "Auto Provision";
- 4. select like as follows:

ito Provision	
Auto Provision:	• on O off
Option:	66 (Default :66, Min:1, Max:254)
Protocol:	TFTP 💌
Software Server URL:	TFTP://192.168.0.201
Username:	
Password:	
	Auto Download Software
	Auto Download Kernel
	Auto Download Config File
	Broadsoft Compatibility
	Auto Download Expansion
	Auto Download Enterprise Phonebook
	Auto Download Personal Phonebook
	Booting Checked
Disable the phone while booting checking:	⊙ off ○ on
Auto Provision Freqency:	168 Hour (Default :7 days, Max:30 days )
Auto Provision Time:	None V
Auto Provision Next Time:	Thu Jan 8 00:11:45 1970 Reset Timing
AES Enable:	⊙ off ○ on
AES Kev:	
	Auto Provision Now

It supports three protocols in Auto-Provision:TFTP,HTTP and FTP. The format with provisioning server URL is:

#### TFTP:

TFTP://192.168.0.201(192.168.0.201 is the default Server IP address) HTTP: HTTP://192.168.0.201 HTTPS: HTTPS://192.168.0.201 FTP: FTP://192.168.0.201 Note: You only need input the URL path, don't need input the filename. For example:

You place the 001122334455.xml in tftp://192.168.0.201/abc/,you only need input tftp://192.168.0.201/abc,please don't input tftp://192.168.0.201/abc/ 001122334455.xml.

**Username:** the user to login FTP/HTTP/HTTPS server **Password:** the password of the user using to login FTP/HTTP/HTTPS server \*Username and password are available in FTP/HTTP/HTTPS only (unavailable in TFTP).

#### • Auto Download Software:

Download software from server and upgrade it automatically.

#### • Auto Download Kernel:

Download kernel from server and upgrade it automatically.

#### • Auto Download Config File:

Download configuration file from server and update it automatically.

#### • BroadsoftCompatibility:

If you select this function, you need to put two configuration files (with Broadsoft format) on the provisioning server. Otherwise, you can download the configuration file from your phone via HTTP (regarding the steps, you can refer to *"Download a configuration file from your phone"* in this document.), modify it and upload it to the server for auto-provision.

#### • Auto Download Expansion:

Download configuration file of the Programmable buttons on your phone or Expansion Modules automatically.

#### • Auto Download Enterprise Phonebook:

Download Enterprise Phonebook from server and update it automatically.

#### • Auto Download Personal Phonebook:

Download Personal Phonebook from server and update it automatically.

#### • Booting Checked:

Check all items you had selected and upgrade/update them when the phone boot

#### • Auto Provision Frequency:

The auto provision Frequency which you want.

#### • Auto Provision Time:

The time you want to execute auto-provision.

#### • Timing Auto Provision

Examples of Auto Provision Frequency and Time:

1. When you set the Auto Provision Frequency and disableAuto Provision Time (set to None), the Auto Provision function will work after the AutoProvision Frequency; 2. When you set both Auto Provision Frequency and Auto Provision Time, for example:

You set the AutoProvision Frequency to 24 hours, and the Auto Provision Time to 2:00 at 8:00 today (1, Jan), it will pass 24 hours at first and work at the nearest 2:00, it means that the Auto Provision function will work at 2:00 on the day after tomorrow (3, Jan).

Therefore, if you want this function work at 23:00 tonight and it is 8:00 now, you need to set the Auto Provision Frequency to 0 hours and the Auto Provision Time to 23:00.

- 3. If you finished the config Auto Provision Frequency and Auto Provision Time, you can click the button of "**Reset Timing**" and timing is finished.
- 4. Auto Provision Next Time show what next time start Auto Provision.
- **5.** The 3 and 4 ponit only support in the phone model with 'N',for example ES320N.

#### • AES Encryption:

AES encryption is used for all the setting files of your phone (include configuration file, Expansion file, Enterprise/Personal Phonebook etc. You just need to enable the AES Encryption function and input the AES Key matching the one on your server on.

Auto-provision

Reference AES Encryption documents: AES feature use I



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