User Manual IP120



IP Phone Version 1.1

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1 Product Overview



1.1. IP Phone Overview

IP is short for Internet Protocol. IP phone carries voice package by IP protocol grouped data package. IP phone can be used by Internet, enterprise LAN, MAN who adopts IP protocols. The main feature of IP phone is to carry voice message on data traffic network. It possesses such features as low cost, sound quality and so on.

IP120 IP Phone attaches a LCD for user to do configuration by its keyboard. It supports prepaid card issued by ITSP, e-Talk card and all IP phone cards while provides sound voice quality which can be compatible to PSTN.

1.2. Key Features and compatibility.

- Support two models: Bridge and Router(NAT&NAPT)
- Network Protocols: TCP/UDP/IP, ICMP, HTTP, DHCP Client (WAN Interface), DHCP

Server (LAN Interface), DNS Client, DNS Relay, SNTP, PPPoE, FTP, TFTP

- Sip protocols
- Voice Codecs: G.711 (A-law/U-law), G.723.1, G.729A/B, G.726 , and G.722
- Redundancy SIP server (or Gate Keeper): Can auto swap address between two servers address
- NAT transversal: Support STUN client, AVS and Citron etc. Can modify SIP register port,

HTTP server port, Telnet server port and RTP port

- Support two SIP server synchronously : Can register two different SIP server, and can make a call by either proxy
- Support standard voice features such as numeric Caller ID Display, Call Waiting, Hold,

Transfer, Do-Not-disturb, Forward, in-band and out-of-band DTMF, Hotline (off hook autodial), auto answer,ban outgoing

- Full duplex hands-free speakerphone, redial, call log, volume control, voice record with indicator
- Support standard encryption and authentication (DIGEST using MD5, MD5-sess)
- Support Silence Suppression, VAD (Voice Activity Detection), CNG (Comfort Noise Generation), Line Echo Cancellation (G.168), and AGC (Automatic Gain Control)
- Provide easy configuration thru manual operation (phone keypad, Web interface and Telenet)

or automated centralized configuration file via TFTP or HTTP.

- Support firmware upgrade via TFTP/FTP and HTTP
- Support syslog, can send event of phone to syslog server.

2. POST mode

If user can't log in due to some mistake in configuration or the device can't be started due to some parameters, POST mode will be helpful for initial configuration.

Processes to log in POST mode:

1. Restart Gateway (Connect phone with Fxs port. Phone display will count down after 3 sec.

If "#" is pressed down within 5 sec., POST mode will be got in, or, the system will be lead to APP.) (If user press down keyboard by mistake within 5 sec. to get in POST mode, press down "Subnet Mask" can log out POST mode to lead to APP.)

Log in POST mode by telnet 192.168.10.1 as following picture show;



2, POST mode has been logged in when got above picture and can do initial configuration. Choose 1 can look over MAC address; choose 2 can enter FTP upgrade mode; choose 3 to clear configurations and back to default configurations.

3 APP mode

After APP is enabled successfully, sometimes in order to meet different demands, we should check the current configuration of the phone and modify some configurations according to our own needs. The phone provides three ways for checking and modifying configuration :

- a. Command line
- b. WEB page
- c. Phone keyboard

After APP is enabled, the one near the power supply is WAN port, another is LAN port.

4 Configure IP phone by WEB :



4.1Configuration with WEB

The IP Phone Web Configuration Menu can be accessed by the following URI: http://Phone-IP-Address. The default LAN IP address is "192.168.10.1" and WAN IP address is

"192.168.1.179". If the web login port of the phone is configured as non-80 standard port, then

user need to input http://xxx.xxx.xxx : xxxx/, otherwise the web will show that no server has

been found), it will be shown as follows:

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Current State <u>Network</u> <u>VOIP</u> <u>Advance</u> <u>Dial-peer</u> <u>Config Tanage</u> <u>Update</u> <u>System Tanage</u>				
e				🥑 Internet

4.2 user validation

4.2 User validation.

Login should be effected before configuration.

Account for guest: user name and pin are both guest. This user can overview the system.

Admin account: user name and pin are both admin. This user is for administrators only and can configure system.



4.3 Configuration details

4.3.1 Current state

On this page user can gather information of each commonly-used parameter of the phone, it is shown as the following figure : the network section shows the current WAN, LAN configurations of the phone : including gaining way of WAN IP and IP (static state, DHCP, PPPoE) , MAC address , WAN IP address of the phone , LAN IP address of the phone , opening state of LAN DHCP server.

The VoIP section shows the current default signaling protocol in use , and server parameter in use of each protocol : including GateKeeper IP of H323 ,H323ID ,whether enables register ,whether has registered on GK ; Register server IP of SIP , proxy server IP , whether enables register , whether has registered on register server , whether enables outbound proxy , whether enables STUN server ;

The Phone Number section shows corresponding phone number of each protocol ;

The version number and date of issue have been shown at the end of the page ;

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<u>Current State</u> <u>Network</u> <u>VOIP</u> <u>Advance</u>	Network		Running Sta	tus		
<u>Dial-peer</u>		Connect Mode	Static	MAC Address	00:a0:24:b8:55:20	
Config Lanage	WAN	IP Address	192.168.10.161	Gateway	192.168.10.100	
<u>Update</u>	LAN	IP Address	192.168.11.161	DHCP Server	ON	
System Lanage	VOIP					
	Default Prot	ocol:SIP				
	H. 323	GK server	211.68.95.150	H323 ID	WINLINE	
		Register	OFF	State	Unregistered	
		Register Server	210.51.235.200	Proxy Server	210. 51. 235. 200	
	SIP	Register	ON	State	Registered	
		Public Outboud	ON	SIP Stun	OFF	
	Phone Number	r.				
	Н. 323	95000028				
	Public SIP	60576181				
	Private SIP					
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4.3.2 Network configuration

4.3.2.1 Wide area network (WAN)

User can view the current network IP linking mode of the system on this page.

User will be authorized to set the network IP , Gateway and DNS if the system adopts

the static linking mode.

If the system selects DHCP service in the network which is using DHCP service, IP address will be gained dynamically.

If the system selects PPPOE service in the network which is using the PPPOE service, then the IP address will be gained by the set PPPOE ISP internet and password of the account.

Note : if IP address has been modified, the web page will no longer respond owing

to the modification, so new IP address should be input in the address field now.

WAN Configuration						
Active IP Current 192.168.1.97 255.255		Netmask MAC Address .255.0 00:01:02:03:04:06		Current Gateway 192.168.1.68		
⊙ Stati	ic C	DHCP	○ PPPOE			
	IP Ado	dress	192.168.1.97		Netmask	255. 255. 255. 0
Static	Gate	way	192.168.1.68		DNS Domain	voip.com
	Primar	y DNS	192.168.1.68		Alter DNS	192.1.1.1
PPPOE Se	rver ANY		User user1	23	Passwo	ard .
Apply						

Configuration Explanation :

-

Active IP	Current Netmask	MAC Address	Current Gateway
192.168.10.77	255. 255. 255. 0	00:01:02:12:34:57	192.168.10.86

Current phone IP, subnet mask, mac address and current phone IP;

💿 Sta	tic () DHC	CP O PPI	POE	, Select acquisitic	on way of IP for WAN;	
This is	single	option	; Configure	sta	atic IP param	eter for WAN :	
	IP Addro	ess	192.168.10.77		Netmask	255.255.255.0	
Static	Gatewa	y	192.168.10.86		DNS Domain	voip.com	
	Primary DNS		192. 168. 10. 86		Alter DNS	192. 1. 1. 1	
IP Address 192.10		168.10.77		onfigure static IP	address ;		
Netmask 255.		255.2	255.255.0		onfigure subnet mas	sk ;	
Gateway 192.		168.10.86		onfigure IP address	of the the phone;		
DNS Domain voip.		com		onfigure "dns doma	ain" suffix ; if user input		

"domain" and it can't be resolved, then the phone will add and resolve the "domain" after user has

input;

Primary DNS	192.168.10.86	Main DNS server IP address ;
Alter DNS	192. 1. 1. 1	The second DNS server IP address ;

Configure PPPoE:

PPPOE	Server	ANY	User user12	3	Password	•••••
Serve	r ANY	Se	ervice name	if PPPoE ISP	has no spec	ial requirement for this
name ,	generall	y is the default;				
User	user123		PPPoE acco	unt;		
Passw	ord	•••••	PPPoF	E password ;		

Configure the parameter and then click "apply" to go into effect ;

4.3.2.2 Local area network (LAN)

User can make local area network (LAN) configuration on this page, when bridging mode is selected, the local area network (LAN) configuration will no longer go into effect.

LAN Conf	iguration
🗌 Bridge Mode	
IP 192.168.10.11	Netmask 255.255.255.0
🗹 DHCP Service	☑ NAT

Configuration Explanation :

Bridge Mode Use bridge mode(transparent mode): bridge mode will make the phone no longer set IP address for LAN physical port, LAN and WAN will join in the

same network ;

IP 192. 168. 1. 68 Configure LAN static IP ;

Netmask 255.255.255.0 Configure LAN subnet mask ;

DHCP Service Enable LAN port DHCP server ; after user modify LAN IP , the phone will automatically modify the adjustment and save the configuration according to IP and subnet mask team DHCP Lease Table ,user need to restart the phone to make

DHCP server configuration go into effect;

☑ NAT Enable NAT ;

VOIP configuration

Sip parameters can be configured by this interface.

	SIP[Registered	l] Configuration	
Register Server Addr	210.51.235.200	Proxy Server Addr	210. 51. 235. 200
Register Server Port	5060	Proxy Server Port	5060
Register Username	60576181	Proxy Username	60576181
Register Password	•••••	Proxy Password	•••••
Phone Number	60576181	Local SIP Port	5060
Detect Interval Time	60 seconds	Register Expire Time	33 seconds
DTMF Mode	DTMF_RFC2833 😽	RFC Protocol Edition	RFC3261 🐱
🗹 Enable Register		🗌 Auto Detct Server	
🗹 Enable Pub Outboun	d Proxy	🔲 Server Auto Swap	
☑ SIP(Default Protoc	ol)		

Configuration Explanation :

SIP[Registered] Configuration

show SIP register state ; if register

successfully, there will show Registered in the square bracket, otherwise show Unregistered;

Register Server Addr	221.11.11.100	Configure SIP register server IP				
address;						
Register Server Port	5060	Configure SIP register server signal				
port;						
Register Username	92975421	Configure SIP register account				
(usually it is the same with the port number that configured , some special SIP servers will have						
different port configurations, then the port configuration needs to be configured to be numbers,						
here the configuration account can be arbitrary character string);						

Register Password	Configure pass	sword of SIP	register
-------------------	----------------	--------------	----------

account;

Proxy Server Addr	222.41.97.135	Configure	nroxy	server	IP	address
·	e		DIOAY		11	audics

(usually SIP will provide user with service of proxy server and register server which have the same configuration , so the configuration of proxy server is usually the same with that of register server , but if the configurations of them are different(such as different IP addresses), then each server's configuration should be modified separately);

Proxy	Server	Port	5060	<i>a "</i>	arb			
-				('ontigure	SIP.	nroyv	server	eronal
				Comiguic	on	DIUAY		Signai

port;

Proxy Username	92975421	Configure proxy server account ;
Proxy Password	•••••	Configure proxy server password ;

Local SIP Port 5	5060						
J		1	Configure	local	signal	port,	the

default is 5060(this port will go into effect immediately, the SIP call will use the modified port for communication after modification)

Register Expire Time 300 seconds Configure expire time of SIP server register , the default is 600 seconds. If the expire time that server requires is more or less than that configured by the phone , the phone can automatically modify it to the recommended time limit and register ;

Detect Interval Time 60 seconds Configure detection interval time of the server , if the phone enables SIP detection server function , the phone will detect once for whether the server has response every other detection interval time ;

□ Enable Register Configure enable/disable register ;

Enable Fub Outbound Proxy Configure to enable public outbound proxy. If proxy server has been enabled, the phone will consider the user as using outbound proxy automatically. If the configuration has been disabled, the phone can still be registered to the server, but can't make SIP call; configuration of registered call by the phone will not have impacts on SIP point-to-point call;

SIP (Default Protocol) Configure SIP of the phone as default protocol;

RFC Protocol Edition RFC3261 Enable the phone to use protocol edition. When the phone need to communicate with phones which is using SIP1.0 such as CISCO5300 and so on,then it should be configured into RFC2543 to communicate normally. the default is to enable

DTMF Mode	DTMF_SIP_INFO 🔽
🗌 Enable Register	DTMF_RELAY
✓ Enable Pub Outbound	DIMF_SIP_INFO

DTMF sending mode

configuration ; three kinds : the above are basic configurations of SIP.

RFC3261 ;

Note : if you want to register and call through server , you must configure corresponding numbers (which are usually SIP accounts) to local port , otherwise the phone will reject for sending out register message when it considers that there is no number.

Auto Detct Server Configure automatic detection server of the phone ;

Server Auto Swap Configure main and backup auto-swap server ; if the phone enables

main and backup server function, the automatic detection and auto-swap functions should both be

chosen;

After the aforesaid network and VoIP configurations have been configurated on the phone and internetwork communication has been implemented , the user can make VoIP calls by the calling register and proxy. SOME ISP INTERNET MAY INHIBIT THE PHONE TO REGISTER AND CANCEL THE REGISTER IN SUCCESSION, SO USER HAD BETTER NOT APPLY OR REGISTER AND CANCEL SOON IN SUCCESSION AND SUBMIT REGISTRATION REPEATEDLY. SERVER MAY STOP RESPONSE OF DIALOGUE MACHINE, THEN THE PHONE RECEIVES NO CERTIFICATION OF REGISTER/CANCEL LOGIN REQUEST AND REGISTRATION STATE

WILL SHOW AS INCORRECT! 4.3.3.1 DHCP server configuration.

User can configure DHCP service on this page, user can define dynamic IP distribution scope and other configurations.

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地址 @) 🕘 http://192.168.1.97/							💙 芛 转到	链接 » 📆 🕇
Current State <u>Network</u> VOIP Advance DHCP Server NAT	DNS Re	elay		DHCP Ser	vice			_
<u>Net Service</u> Firewall QOS SIP Digital Map		-		Apply]			
<u>Call Service</u> <u>UDP Tunnel</u> <u>MMI Filter</u> DSP	Name 1an2005	Start IP 192.168.10	End IP .1 192.168.10.30	Lease Time 1440	Netmask 255.255.255	Gateway .0 192.168.10.11	DNS 192.168.10.1	.1
<u>Dial-peer</u>	Lease Tak	ole Name		Lease Time				
Config Tanage	Start IP			End IP			-	
<u>Update</u> System Tanage	Netmask			Gateway			Add	
System Lanage	DNS				,			
	Lease Tak	ole Name 1	an2005 🗸				Delete	_

Configuration Explanation :

DNS Relay Configure DNS Relay mode ; this mode enables user's LAN-linked equipments to use LAN port IP of the phone as DNS server address. The default is Enable ;click apply to make

it go into effect after it has been selected ;

Name	Start IP	End IP	Lease Time	Netmask	Gateway	DNS
1an2005	192.168.10.2	192.168.10.50	1440	255.255.255.0	192.168.10.1	192.168.10.1

The display of DHCP lease table configuration, of which the unit of the lease time is minute;

Lease Table Name	lan_202	Lease Time	1440	
Start IP	192.168.1.1	End IP	192.168.1.31	
Netmask	255.255.255.0	Gateway	192.168.1.99	Add
DNS	192.168.1.99			
Lease Table Name	1an2005 🗸			Delete

Add and delete of the lease table :

Lease Table Name 12	an_202	Additive lease table names ;
---------------------	--------	------------------------------

Lease Time	1440	Time limit of additive lease table IP ;
Start IP	192.168.1.1	Start address of additive lease table IP;
End IP	192.168.1.31	End address of additive lease table IP;
Netmask	255. 255. 255. 0	Subnet mask of additive lease table ;
Gateway	192.168.1.99	Default phone IP of additive lease table IP ;
DNS	192.168.1.99	Default DNS server IP of additive lease table

IP;

Click ADD to add DHCP lease table ;

Lease Table Name Select lease table names that you want to delete from the

drop-down menu, click Delete to delete your options from DHCP Lease Table.

XIf user modify dhcp lease table, the configuration should be saved and will go into effect after restarting.

4.3.3.2 NAT configuration

User can configure NAT image on this page. Each kind of image can have 10 configurations at most.

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<u>Current State</u> <u>Network</u> <u>VOIP</u> <u>Advance</u>	N	AT Configuration	
DHCP Server NAT			
Net Service	H323 ALG	✓ FIP ALG	_
Virewall QOS	PPIP ALG	IPSec ALG	_
<u>SIP</u> Digital Map		Apply	
Call Service			
UDP Tunnel MMI Filter	Inside IP I	nside TCP Port Outside TCP Port	
DSP			
Dial-peer	Inside IP I	nside UDP Port Outside UDP Port	
<u>Lonrig Manage</u> Update			
<u>System Ianage</u>		r	_
	Transfer Type TCP 💌	Inside IP	
	Inside Port	Outside Port	
	C	Add Delete	
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Configuration Explanation :

H323 ALG Configure enable/disable of H323 ALG , the default is Disable ;
FTP ALG Configure enable/disable of FTP ALG, the default is Enable;
PPTP ALG Configure enable/disable of FTP ALG, the default is Enable;
$\ensuremath{\text{IPSec}}$ ALG Configure enable/disable of FTP ALG , the default is Enable ;

Click Apply to go into effect after selecting.

Inside IP	Inside TCP Port	Outside TCP Port
192.168.1.201	1719	1917
Inside IP	Inside UDP Port	Outside UDP Port
192.168.1.201	5060	5000

Configure the display of TCP and UDP inner-net image table of NAT;

Transfer Type TCP Configure	image protocol types of NAT, TCP or UDP;
Inside IP	Configure LAN equipment IP address of NAT image;
Inside Port	Configure the NAT image LAN equipment port;
Outside Port	Configure the NAT image WAN port of the phone;

After configuration, click Add to add to the image table, click Delete to delete from the image table.

4.3.3.3 Net Service configuration

Current State Network YOIP Advance HCP Server		Net Se	ervice	
VAT	HTTP Port	80	Telnet Port	23
irewall	RTP Initial Port	10000	RTP Port Quantity	200
<u>)SP JFN Dial-peer</u> Config Manage		DHCP Lea	se table	
pdate System Tenage	Leased IP Address		Client hardware A	ddress

User can set up Telnet, HTTP, RTP port on this page and view DHCP table.

Configuration Explanation :

HTTP Port	80								
		Configure	web	browse	port,	the	default	is	80

port, if you want to enhance system safety, you'd better change it into non-80 standard port;

Telnet Port	23	Configure telnet port, the default is 23 port;
RTP Initial Por	t 10000	Enable RTP initial port configuration. It is

dynamic allocation ;

RTP	Port	Quantity	200	Configure	tha	movimum	quantity	of	DTD
				COULISHE	IIIC.	шахниции	unamer	UI I	NIF

port. The default is 200;

Leased IP Address Client hardware Address

Leased IP-MAC correspondence table of DHCP ;

The configuration on this page needs to be saved after modified and will go into effect after restarting.

X If the Telnet, HTTP port will be modified, the port is better to be set as greater than 1024, because the 1024 port system will save ports.

Set the HTTP port as 0, then the http service will be disabled.

4.3.3.4 Firewall configuration

User can set whether enable the input and output firewall on this page, and configure the IO(input-output) rule of firewall, utilize these configurations to guard against some malicious IP to access this phone or restrict visiting some resource of the outside-net, so that the security will be enhanced.

Accesslist is a simple execution module such as Cisco accesslist (firewall). This function supports two rules : input and output rule. Each rule will be provides with one serial number. Each rule is allowed to 10 configurations at most.

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地址 (1) 🕘 http://192.168.1.9	7/				🖌 🄁 转到	」链接》	•
<u>Current State</u> <u>Network</u>	F	irewall Confi	guration				
<u>VUIP</u> Advance	□ in_access enable		ut_access en	able			
DHCP Server NAT Net Service	·	Apply	-			δ	
QOS SIP		Firewall Input R	ule Table				
<u>Digital Map</u> Call Service	Index Deny/Permit Protocol Src Addr	Src Mask	Des Addr	Des Mask	Range	Port	
UDP Tunnel MMI Filter DSP	I	firewall Output R	Rule Table				
<u>Dial-peer</u>	Index Deny/Permit Protocol Src Addr	Src Mask	Des Addr	Des Mask	Range	Port	
<u>Config ∎anage</u> Update							
System ∎anage	Input/Output Input 💌	Deny,	/Permit Deny	~			
	Protocol Type 🐨 💌	Port	Range more t	han 🗸			
	Src Addr	Des 1	Addr				
	Src Mask	Des 1	Mask				
		Add					
	Input/Output Input 💌	Inde	x to be dele	ted]		
		Delete	J				
							~
🕘 完毕					🥑 Inter	net	

Configuration instance :

Debug configuration of icmp data packet sent from lan attached device to wan network segment device. wan ip of the phone is 192.168.10.77, lan ip is 192.168.1.68.

□ in_access enable	☑ out_access enable							
Input/Output Output 💌	Deny/Permit Deny 💌							
Protocol Type ICMP 🗸	Port Range more than 🗸 O							
Src Addr 192.168.10.77	Des Addr 192.168.10.86							
Src Mask 255.255.255.255	Des Mask 255.255.255							

Configuration Explanation :

☑ out_access enable , To enable the output rule application ;
Input/Output Output To select the current additive rule as input or output rule ;
Deny/Permit Deny To select the current rule configuration as deny or permit;
Src Addr 192.168.10.77 It is source address, which can be specific IP address or

network address ;

Src Mask 255.255.255.255 It is source address mask , which stands for specific host computer when it is configured as 255.255.255.255 , and it stands for network ID when the it has been set assubnet mask 255.255.255.0 ;

Des Mask 255.255.255.255 It is destination address mask , which stands for specific host computer when it is configured as 255.255.255.255 , and it stands for network ID when it has been set as subnet mask 255.255.255.0 ;in this way ,when this configuration has been added ,there will be an additive item in output rule table , shown as the following figure.

Index	Deny/Permit	Protocol	Src	Addr	Src	Mask	Des Add	lr	Des	Mask	Range	Port
0	deny	ICMP	192.	168.10.77	255.	255.255.255	192.168	3.10.86	255.	255. 255. 255	more than	0

And then select "out_access table" and click the "apply" button.

When the lan port attached device ping 192.168.10.86 through wan port, it can't receive echo of

192.168.10.86 because of the deny of the rule, but other IP of ping 192.168.10.0 network segment can still receive echo of destination host normally.

4.3.3.5 QOS configuration

The phone is accomplished to base on the qos 802.1p and used for marking and ranking the priority of internetwork communication in data link/MAC sublayer. 802.1p communication is to be classified and transmitted to destination.

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Net Ser	rvice					105 Fm	chlo				005 Te	hle Inc	ludo	1			
Firewal	<u>11</u>					200 DI	apic				Q03 12	IDIC IIIC	iuuc				
SIP									(Submit)						
Digital Call Se	<u>Map</u>																
UDP Tur	nel				TP					Netma	sk			 			
MMI Fil	lter				1	-			-	Jivo cindi		_					
Dial-	peer						IP										
Confi	g Iana	ge					Netm	ask									
Update	2						<u>.</u>		<u> </u>		-)	<u>.</u>					
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QOS Enable The selected Qos Enable represents application of Qos service.

QOS Table Include The selected Qos Table Include means that the network segment addresses in the set Qos table are required to provide Qos service addresses those outside the table are not required to provide qos ; cancelling the checked qos table include is to say all the addresses outside the table are required to provide Qos service.

Click Submit to go into effect after selecting.

Description of qos table items : the setup of IP can be network address or specific IP address. User can set destination address through the setup of IP and mask. When the setting is 255.255.255.255.255 , then it stands for appointed specific IP.

Deletion of qos table : input items that you want to delete in ip / netmask configuration table and then select delete.

4.3.3.6 SIP advanced configuration

Set SIP STUN, private and backup server, user password and so on.

SIP STUN is a kind of server that used to realize the SIP's enablement of NAT , when the STUN

server IP of the phone has been configured(generally the default is 3478) and Enable SIP Stun has been selected, conventional SIP server can be used to realize the phone's penetration of NAT. Public backup server can implement the proxy of the dialogue machine through auto-swap function when no response to public server. When the phone detect response of public server, it will auto-swap to public server. Public backup server is redundancy backup of public server, it should have the same account with public server.

The phone's supports to two different kinds of SIP server concurrently can be implemented on private server. In this way user can register and use two different kinds of services concurrently.

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<u>DHCP S</u> <u>NAT</u> <u>Net Se</u> Firewa	<u>server</u> ervice all			STUN Ser Public <i>I</i>	rver Addr Alter	0.0.0.0		STUN Server Port	3478			
QOS SIP Digitz	<u>al Map</u> Service			Register Register	r r Port	0		Proxy Port	0			
UDP Tu MMI Fi DSP	<u>innel</u> ilter			Register Register	r Username r Password			Proxy Username Proxy Password				
Dial- Confi	<u>peer</u> ig ∎anaş	<u>se</u>		Private Register	Kegister r Port	0		Private Proxy Proxy Port	0			
Updat Syste	<u>te</u> em Lanas	<u>se</u>		Register Register	r Username r Password			Proxy Username Proxy Password				
				STUN Efi	fect Time le Private	minute Server		 Enable SIP Stun Enable Private 0 	utbound Proxy			
					SI	P Account	(Ap	Password				
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ē) Internet		

Configure explanation of private server :

Public[Unregistered]Private[Unregistered] To show the phone

whether has been registered on public server or private server ;

STUN	Server	Addr	0.0.0.0	Configure IP address of SIP STUN server ;
STUN	Server	Port	3478	Configure port of SIP STUN;

STUN can support SIP terminal's penetration to NAT in the inner-net. In this way, as long as there is conventional SIP proxy and a STUN server placed in the public net, it will do; but STUN only supports three NAT modes : FULL CONE, restricted, port restricted ;

Public Alter Register	10. 1. 1. 11	Public Alter Proxy	0. 0. 0. 0
Register Port	5060	Proxy Port	5060
Register Username	1234	Proxy Username	1234
Register Password	••••	Proxy Password	••••

Public backup server configuration ; the specific configuration parameter has the same meaning with public server. It should be noted that the username and password should be the same with the public main server ;

Private Register	210. 25. 132. 124	Private Proxy	210. 25. 132. 124
Register Port	5060	Proxy Port	5060
Register Username		Proxy Username	
Register Password		Proxy Password	

Private server configuration. specific configuration parameter has the same meaning with public server ;

STUN Effect Time minute Interval time for STUN's detection on

NAT type, the unit is minute;

Enable SIP Stun Configure enable/di	sable SIP STUN ;
🔲 Enable Private Server Register	Configure permit/deny private server register ;

Enable Private Outbound Proxy Configure enable/disable private outbound

proxy;

If user has accounts of a certain SIP server and each account has different password, then user should add each account and its corresponding password to the account& password table.

SIP Account	Password
1000	1000

Configure display of account & password list ;

Click Add to add account and password, it is shown as the following figure:

SIP	Account		
SIP	Password		
		Return	Submit

Configure additive accounts

Configure additive passwords

Click submit to submit the configuration, click return to cancel the configuration and return ;

Delete	1000 🗸	Select acc	counts that you	want to de	elete from	the d	rop-down	menu	ı, click
delete.	Modify	1000 🔽	Load	drop-down	menu to	select	accounts	that	want to

modify, click load to load the configuration and then click modify to modify :

SIP Ad	ccount	1000
SIP Pa	assword	1000
	R	eturn Submit
		Babarre

Accounts to be modified, read-only;

Passwords to be modified ;

Click submit to submit, click return to cancel the modification and then return ;

4.3.3.7 Dial mode configuration

Dial modes supported by this system :

End with # key : user add an # to end the calling number.

End with fixed length : the system intercepts numbers that user input by the fixed length.

End with H323 RAS : the system checks each number that user input at net gate through H323

protocol.

End with timeout setup : the system sends out number received after time out.

 $End \ with \ user-defined \ rule \ : \ \ the \ user-defined \ length \ and \ prefix \ of \ the \ numbers.$

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Current State Network VOIP Advance DHCP Server NAI Net service Firewall QOS SIF Disital Map Call Service Disital Map MIT Filter DSP Dial Dece Digital map table Prefix Number Length Prefix Number Add Prefix to be deleted v Delete	地址 (1) 🕘 http://192.168.1.97	7/ > 於 教 (部)	£ " 🔁
DRCP Server NAT Net Service Pirewall QOS SIP Digital Map Call Service UPT Tunnel WIT Filter DSP Digital map Config Lanage Update System Lanage Digital map table Prefix Number Length Prefix to be deleted ▼	<u>Current State</u> <u>Network</u> <u>VOIP</u> Advance	Digital Map Configuration	
QOS SIP Digital Map Call Service UDP Tunnel UMI Filter DSP ○ User-defined Rule Dial_peer ○ Time out 5 (330) Ofig Lanage ○ Apply Config Lanage ○ Apply Digital map table ○ Prefix Number Prefix Number Length Prefix to be deleted ♥ ○ Delete	DHCP Server NAT Net Service Firewall	 End with "#" FixedLength 	
IMI Filter DSP Dial-peer Config Tanage Update System Tanage Digital map table Prefix Number Length Prefix Number Length Prefix to be deleted ♥ Delete	QOS SIP Digital Map Call Service IMP Turnel	○ User-defined Rule ☑ Time out 5 (330)	
Update System Manage Digital map table Prefix Number Length Prefix Number Add Prefix to be deleted ▼ Delete	MMI Filter DSP Dial-peer	H.323 Stack auto parse	
Prefix Number Length Prefix Number Length Add Prefix to be deleted Delete	<u>Update</u> System Tanage	 Digital map table	
Prefix Number Length Add Prefix to be deleted		Prefix Number Length	
		Prefix Number Length Add Prefix to be deleted Delete	
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Configuration Explanation :

⊙ End wit	th "#" Configure the phone to c	end with # key;
🔿 FixedLe	ngth ⁰	Configure the phone to end with fixed length ;for
example, when this number of	n user set a"8",then when user h 8 figures automatically.	ave dialed 8 figures, the phone will make the call of
🔾 User-de	fined Rule _{Configure} to end	with user-defined rule ; add configurations to the
following user	-defined list;	
🗹 Time ou	t 5 ((330)Configure timeout length of dialing, the
unit is second.	. The default is 5 seconds, that	is, after the user has dialed a number and haven't

dialed in 5 seconds ,the phone will consider that the user has finished dialing and then send out the

number it has received as the called number ;

H. 323 Stack auto parse Configure to be H323 protocol automatic resolving ;

The following is list of user-defined rules :

Prefix Number	Length
010	11
020	11

Display of user-defined digit reception rule list;

Prefix Number	Length	
0139	12	Add
Prefix to be deleted	010 🗸	Delete

Configure add/delete of user-defined rule list. Configure the dialed number prefix in prefix number , configure number length in length , then click add to submit ;

4.3.3.8 Value added service configuration

On this page, user can set value added services such as hot-line , call forwarding , call transfer

(CT) , call-waiting service , three way call , blacklist , out-limit list and so on.

	Call S	ervice
	-	
Hotline		
Call Forward	⊙ Off ○ Busy ○ No Answer ○	Always
	Faraway Protocol:H323 Number	IP Port 1720
	Faraway Protocol:SIP Number	IP Port 5060
🗌 No Distur	b	🗖 Ban Outgoing
🗹 Enable Ca	ll Transfer	🗹 Enable Call Waiting
🗹 Enable Th	ree Way Call	🗹 Accept Any Call
🗌 Auto Answ	er	

Configuration Explanation :

Hotline Configure hot-line number of the port. With this number of the port , this hot-line number will be dialed automatically as soon as off-hook and user can's dial any other number ;

Call Forward 💿 Off 🔿 Busy 🔿 Alway	Call forwarding. The default is Disable ;
-----------------------------------	---

when busy is selected, if the number dialed is engaged after the phone has received a call, then it will automatically transfer to the configured number according to the following configuration; when always is selected, then the phone will directly transfer all the numbers that dial to this port to the configured numbers;

Faraway Protocol:H323	Number	IP	0.0.0.0	Port	1720
Faraway Protocol:SIP	Number	IP	0.0.0.0	Port	5060

number IP configuration of call transfer (CT);

🗌 Enable Call Waiting

Configure enable/disable call waiting service ;After it is enabled,

user can hold calls of the other party by hooking, with hooking again, the hold call can go on.

Enable Call Transfer Configure enable/disable call transfer (CT) ; after it is enabled, user accept calls, with hooking and dial directly , the phone will transfer the calls according to the above configurations of the port number IP images ;

Enable Three Way Call Configure enable/disable three way call ; user can call the other part as the call origination , after talking , make hooking to hold this part and then press * key to hear the dialing tone ,after call completion to the third party, hooking again to recover the talk with the second part, then the three way call concurrently ;

After the aforesaid configuration has been done, click apply to make them go into effect.

Black List		
	Add	Delete

Configure add/delete blacklist. If user don't want to answer a certain number, pleasse add this number to the list, and then this number will be unable to get through the phone.

Limit List		
	Add	Delete

Configure out-limit list ; for example, if user don't want the phone to dial a certain number, please

add the number to this table, and the user will be unable to get through this number.

4.3.3.9 MMI filter configuration

On this page, user can set MMI to permit only a certain network segment IP accessing the phone.

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Current State			
Network			
VOIP		MMI Filter	
Advance			
<u>NAT</u>	WIT Filter		
<u>Net Service</u> Firewall		imly	
QOS		1499-13 	
<u>SIP</u> Digital Map			
Call Service	Start IP	End IP	
MMI Filter	192. 106. 1. 1	192.108.1.254	
DSP Dial-peer			
Config Lanage	Start IP	Red IP	
<u>Update</u>	Start IP to be deleted 192,168		
<u>System Tanage</u>	start in to be dereted inclusion		
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Configuration Explanation :

MMI Filter Configure enable/disable MMI access filter ; click apply button to go into

effect;

Start IP	End IP
192.168.10.1	192. 168. 10. 254

Display of MMI permitted IP network segment ;

Start	IP	End IP	Add
Start	IP t	o be deleted 192.168.10.1 🔽	Delete

Add and delete MMI visit-permitted IP network segment ; configure start IP address in start IP and configure end IP address in End IP, submit the configuration to go into effect. User can set a big network segment or set several network segments to add, when user make deletion, select the start IP of network segment that will be deleted and then click delete to go into effect go into effect ;

XIt should be noted that if the phone device you are accessing is at the same network segment with the phone, don't configure the mmi filter network segment outside of the network segment of the phone you have, otherwise it can't logging in web in the phone network segment.

4.3.3.10 DSP configuration

On this page, user can set speech coding , IO volume control, cue tone standard, caller ID standard and so on.

	DSP	Conf	iguration		
			1	le	
Coding Rule	g723-r63	*	Handdown Time	200	ms
Input Volume	5	(1-5)	Output Volume	5	(1-9)
Handfree Volume	5	(1-9)			
		Арј	ply		

Configuration Explanation :

Output Volume	5	(1-9) Configure output volume ;
Input Volume	5	(1–5) Configure input volume ;
Handfree Volume	5	(1-9) Configure handfree volume
Handdown Time	400	The Configure handdown time, that is, if the hooking
		time is shorter than this time, then the gateway will

not consider the user has handdown;

4.3.3.11 VPN network configuration

/PN IP		0. 0. 0. 0	
/PN Server Addr	0.0.0	VPN Server Port	80
Server Group ID	VPN	Server Area Code	12345
🗌 Enable VPN Tunr	nel	Out GK Addr	
		Apply	

4.3.4 Number binding configuration

Number IP table configuration :

Function of number IP table is one way to implement the phone's calling online, and the calling of the phone will be more flexible by configurating the number IP table. For example, user know the other party's number and IP and want to make direct call to the party by point-to-point mode : the other party's number is 1234, make a configuration of 1234 directly, then the phone will send the called number1234 to the corresponding IP address; Or set numbers with prefix matching pattern, for example, user want to make a call to a number in a certain region (010), user can configure the corresponding number IP as 010T— protocol— IP, after that, whenever user dial numbers with 010 prefix (such as 010 - 62201234), the call will be made by this rule.

Bases on this configuration, we can also make the phone use different accounts and run speed calling without swap.

When making deletion or modification, select the number first and click load, then click Modify and complete the operation.

		Dial	-Peer		
Number	Destination	Port	Alias	Suffix	Del length
	Add)	Delete	Modify 🗸	1	
	Ph	one Numbe:	r		
	D	estinatio (optional	n)		
	Port	(optional)		
	Alias	(optional)		
	Suffix	(optional)		
	Del	ete Lengt (optional	h)		
		Ret	urn Submit	E	

Configuration Explanation :

Number	Call Mode	Destination	Port	Alias	Suffix	Del length
OT	lifeline	0.0.0.0	0	no alias	no suffix	0
9T	sip	0.0.0.0	0	no alias	no suffix	0
1T	h323	0.0.0.0	1720	no alias	no suffix	0
8T	sip	255. 255. 255. 255	5060	del	no suffix	1

Display of calling number IP image list;

Add Click Add, the following figure will be shown at the lower part of the page, of which : Phone Number 010T

It is to add outgoing call number, there are two kinds

of outgoing call number setup : One is exactitude matching ,after this configuration has been done, when the number is totally the same with the user's calling number, the phone will make the call with this number's IP address image or configuration; Another is prefix matching(be equivalent to PSTN's district number prefix function), if the previous N bits of this number are the same with that of the user's calling number(the prefix number length), then the phone will use this number's IP address image or configuration to make the call. When configurating the prefix matching, letter

"T" should be added behind the prefix number to be distinguished from the exactitude matching; the longest length is 30 bits.

Call Mode sip Configure the calling mode : H323 and SIP ;

Destination 192.168.10.11 Configure destination address, if it is point-to-point call, then input the opposite terminal's IP address, it can also be set as domain name and resolved the specific IP address by DNS server of the phone. If no configuration has been made, then the IP will be considered as 0.0.0.0. This is an optional configuration item ;

Port(optional)

Configure the other party's protocol signal port,

this is optional configuration item : when nothing is input, then the default of h323 protocol is 1720, the default of sip protocol is 5060; lifeline required no configuration of this item, shown as

0;

Alias(optional) Configure alias, this is optional configuration

item : it is the number to be used when the other party's number has prefix ; when no configuration has been made, shown as no alias ;

Suffix (optional) Configure suffix, this is optional configuration

item : it is the additive dial-out number behind the number; when no configuration has been made,

shown as no suffix ;

Delete Length (optional) Configure the replacing length, replace the

number that user input according to this length ; this is optional configuration item ;

Of which the alias can be divided into four types, it should be combined with replacing length to make the setup :

Add : xxx , add xxx before number. in this way it can help user save the dialing length ;

All :xxx ,the number is all replaced by xxx ;speed dialing can be implemented ,for example, user configure the dialing number as 1, with the configuration "all" , the actual calling number will be

replaced;

Del, delete n bit in the front part of the number, n can be decided by the replacing length ; this configuration can decide the protocol for appointed number ;

Rep : xxx , n bit in the front part of the number will be replaced. n is decided by the replacing length. For example, user want to dial PSTN (010 - 62281493) by VoIP's voice over service , while actually the called number should be 8610 - 62281493, then we can configure called number as 010T, then rep :8610, and then set the replacing leangth as 3. So that when user make a call with 010 prefix, the number will be replaced as 8610 plus the number and then sent out. It is a convenient thinking mode for user to make a call;

Delete OT

Delete selective number IP image ;

Modify OT Load If user want to modify a certain current number image, first select in the drop-down menu and then load the image parameter of the said number, click modify to make modification ; of which :

Phone Number 9T this is the modified number. read-only;

Call Mode sip To modify call mode ;

(optional) 0.0.0 To modify destination address; this is optional

configuration item ;

Port(optional) 0 To modify destination phone port ; this is optional

configuration item ;

Alias(optional) no alias To modify alias; this is optional configuration

item;

Suffix(optional) no suffix To modify suffix; this is optional configuration

item;

Delete Length (optional) 0 To modify replacing length (if rep and del of alias have been configured)

Return Submit Click submit to go into effect ; click return to cancel configuration and return.

The basic application of the number IP table has been introduced , now let me introduce how to

configure IP table of number to implement configuration of using multi-accounts concurrently :

For example, now user has a H323 account and two SIP accounts, then under the default condition, user can only make calls by the default protocol. Configure the number IP table to select the call

protocol, then user don't need to select default protocol before making calls everytime.

The configuration process will not be repeated, now I will mainly introduce what kind of number IP image can implement this function.

By configuration, image table as follows will be gained:

Number	Call Mode	Destination	Port	Alias	Suffix	Del length
9T	sip	0. 0. 0. 0	5060	del	no suffix	1
8T	sip	255. 255. 255. 255	5060	del	no suffix	1
7T	h323	0. 0. 0. 0	1720	del	no suffix	1

Image of 9T means when user configure public SIP server and register, then user just need to add

a"9"before the calling number whenever making a call by public SIP;

Image of 8T means when user configure private private server and register, then user just need to

add a"8"before the calling number whenever making a call by private SIP;

Image of 7T means when user configure h323 server and register , then user just need to add

a"7" before the calling number whenever making a call by H323 GK;

4.4 Save and Clear configuration

4.4.1 Save configuration

User can save the current configuration on this page.



4.4.2 Clear configuration.

The system configuration can be set as factory default configuration on clear config page and the phone will restart automatically



4.4.3 Configuration looking over

4.5. Upgrade on-line

4.5.1. Upload WEB page

On this page, user can select the upgrade documents(**firmware or config file**) on hard disk of the computer directly to run the system upgrade. After the upgrade has been completed, restart the phone and it will be usable at once.

1	WEB Upload		
select file		Brower	(*.z,*.cfg)
	download		

4.5.2 FTP download

On this page, user can upgrade system and configure files by FTP or TFTP mode.

	FTP Download	d
Server		
Username		
Password		
File name		
Porotocol	FTP 🗸	
Image Undate	Config Hoload	config Download
	Config oproad	Contig Downtoad

Configuration Explanation :

Server Configure upload or download FTP/ TFTP server
IP address ;
Username Configure username of the upload or download
FTP server. If user select TFTP mode, username and password are not required to be configured ;
Password Configure upload or download of FTP server
password ;
File name Configure upload or download system upgrade
document or system layout file name. It should ne noted that system file take .dlf as suffix ,
configuration files take .cfg as suffix ;
Porotocol FTP FTP TFTP Select server type ;
Image Update Click image update button, the phone will upgrade system file;

Config Upload Click config upload button , the phone will upload its configuration files to

FTP/TFTP server and save with names of user-defined configuration files;

config Download Click config download button , the phone will download configuration

files of FTP/TFTP server to the phone and the configuration will go into effect after restarting ;

4.5.3. System management.

On this page, user can add and delete users according to own needs and can modify user's

authorities there have been.	
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文件 (E) 编辑 (E) 查看 (Y) 收藏 (a) 工具 (I) 帮助 (B)	
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地址 (1) (會http://192.168.1.97/	💌 🄁 转到 链接 🎽 🐔
Current State Network YOIP Advance	
Dial-peer Config Tanage Update admin System Tanage guest	
Account Manage Syslog Config Reboot Add Delete guest v Modify admin v	Load
	>

Configuration Explanation :

User Name	User Level
admin	Root
guest	General

display of phone user account list ;

Add

To add phone account ; it will be shown at lower part of page as the following figure,

of which :

User name		
User level	Root	v
Password		
Confirm		

Add new accounts ;

As account level ; root possesses authorities to modify

configuration, general possesses read-only authority;

as corresponding password of the additive account ;

As second confirmation of password, to ensure correct setup of

password ;

Click submit to go into effect ; click return to cancel configuration and return. Delete guest Select users that you want to delete in the drop-down menu , click Delete. Modify admin Load To modify the chosen accounts , need to select account first , click load again and then click modify , it will be shown at lower part of page as the following figure, of which :

User name	admin	The modified username;
User level	Root 🖌	
Password	•••••	Modify user authorities ;
Confirm	••••	
	Return Submit	Modify user password;

Make confirmation of the modified user password ;

Submit or cancel the modification;

Owing to the phone's default account accounts of the administrator level-admin and the ordinary level - guest are all weak account and weak password, the username and password will be easily to be guessed on public network, so the user had better modify the administrator and ordinary user. Enter with manager level when making modification , create a administrator account and a

4.5.4.2 Telephone book configuration

User can save and configure telephone book

	Ph	one Book	
Index Name	Nur	mber	Address
	(D-1-		
	Name		
	Number		
	Address	Return Submit	

4.5.4.3 Syslog configuration

On this page, user can enable or close Syslog function, and configure Syslog server address and port.

XTH 0: SER	🐔 VOIP - Microsoft Int	ternet Explorer	_ = = 🔀
Correct State Network VOIP Advance Dial-peer Config Lanage System Lanage System Lanage System Lanage System Lanage Server IP 0.0.0.0 Server Port 14	文件(E) 编辑(E) 查看(V) 4	收藏 (d) 工具 (I) 帮助 (d)	R
With (1) (2) http://192.168.1.97/ Current State Network Wolf Advance Dial_peer Config Ianage Update System Ianage System Ianage Server IP 0.0.0 Server Port 514	🔇 后退 🔹 🕥 🐘 💈	3 😚 🔑 搜索 ☆ 吹森夹 🥝 🔗 - 🎯 🛛 - 🔜 🧶 🔯 🖄	
Current State Network VolP Advance Dial_peer Config Ianage Update System Ianage Account Manage Syslog Config Reboot Server IP 0.0.0.0 Server Port 514 Apply	地址 (D) 🕘 http://192.168.1.97	7/ 🗸 🦻 转到)] 链接 🎽 📆
	Current State <u>Network</u> <u>YOIP</u> <u>Advance</u> <u>Dial-peer</u> <u>Config Manage</u> <u>Update</u> <u>System Manage</u> <u>Syslog Config</u> <u>Reboot</u>	Syslog Configuration Enable Syslog Apply Server IP 0.0.0 Server Port 514 Apply	

Configuration Explanation :

🔲 Enak	ble Sy	vslog Configure	enable/disable	Syslog.	Click	apply	to	go ir	to eff	ect a	after
selecting.											
Server	IP	0.0.0	Confi	gure Sys	log ser	ver IP a	addr	ess;			
Server	Port	514	Confi	igure Sys	slog se	erver po	ort;	click	apply	and	the

configuration will go into effect.

4.5.4.3 Time configuration

User can make a setup to acquire time from network.

a 1016	
文件 (2) 编辑 (2) 查看 (y) 收藏 (a) 工具 (1) 帮助 (t)	A
😋 后退 · 🐑 · 💌 🗟 🏠 🔎 搜索 🌟 收藏夹 🤣 😥 · 🌺 🔟 · 🔜 🕵 🥵 📓 🦓	
地址 (1) 🙆 http://192.168.10.161/	🖌 🔁 转到
Current State <u>Network</u> <u>VOIP</u> <u>Advance</u>	
Config Lanage SNTP Timeset	
Update 202.112.10.36	
System Lanage 7	
Account Manage Phone Book timeout 60 (seconds)	
Syslog Config Time Set	
Reboot Apply	
Manual Timeset	
year	
months	
day	
hour	
minute	
Apply	
2 完毕	🔮 Internet

4.5.4.4 System restart

After certain configurations are made on user's dialogue machine, it needs to be restarted and then go into effect. Enter this page and click reboot, the phone will automatically restart. Please remember to see whether the phone configuration has already saved before restarting , otherwise the configuration after restarting will still be the original one.

5. Command line

5.1.1 Main frame of the command line

Structure under the root node as follows :

$\operatorname{IP120} \texttt{\#}$

- --- account
- --- config
- --- debug
- --- download
- --- password
- --- setdefault
- --- show
- --- telnet

--- time

```
--- trancert
```

--- update

--- upload

Major parameters setup of command line are all under the config node , structure of config

node as follows :

IP120<config>#

- --- accesslist
- --- dhcpserver
- --- dial-rule

--- h323

- --- interface
- --- mmifilter
- --- nat
- --- netservice
- --- pbook
- --- port
- --- pppoe
- --- qos
- --- sip
- --- udptunnel
- --- user

5.1.2 Configuration under Config node

5.1.2.1 Accesslist Firewall Configuration

Path : IP120<config-accesslist>#

Add firewall rules	entry -I/O xxx -P/D xxx -proto xxx -srcaddr x.x.x.x
	-srcmask x.x.x.x-desaddr x.x.x.x -desmask x.x.x.x
	-portrange xxx -portnum xxx
For example: IP120 <config-acce< td=""><td>sslist>#entry -I/O input -P/D deny -proto udp -straddr</td></config-acce<>	sslist>#entry -I/O input -P/D deny -proto udp -straddr
	202.112.10.1 –srcmask 255.255.255.0 –desaddr
	210.25.132.1 -desmask 255.255.255.0 -portrange neq
	–portnum 5060
Delete firewall rules	no entry –I/O xxx –index xxx
For example: IP120 <config-accessl< td=""><td>ist>#no entry –I/O input –index 1</td></config-accessl<>	ist>#no entry –I/O input –index 1
Check firewall setup	show
[Disable] enable in-access filters	[no]in-access
[Disable] enable out-access Filter	[no]out-access

5.1.2.2 DHCP-Server DHCP service configuration

Path : IP120<config-dhcp>#

Add DHCP rules---entry -name xxx -startip x.x.x.x -endip x.x.x.x -netmask
x.x.x.x -gateway x.x.x.x -dnsserver x.x.x.x _time xxxFor example:IP120<config-dhcp>#entry -name lan2004 -startip 192.168.1.2 -endip
192.168.1.254 -netmask 255.255.255.0 -gateway
192.168.1.1 -dnsserver 192.168.10.18Delete DHCP rules---no entry -name xxxFor example:IP120<config-dhcp>#no entry -name lan2004Check DHCP setup---show

[Disable] enable DNS-relay ---[no] dns-relay

5.1.2.3 Dial-Rule configuration

Path : IP120<config-dialrule>#

Set the fixed length to endfixlen xxx			
No fixed length to end no fixlen			
Set to send numbers after time outtimeout-send xxx			
No timeout-send -	no timeo	out-send	
[Disable] use of h323 RAS location[no] h323-location			
Add user-defined dial ruleentry -prefix xxx -length xxx			
For example:IP120 <config-dialrule>#entry -prefix 010 -length 11</config-dialrule>			
Delete user-defined dial ruleno entry -prfix xxx			
For example:IP120 <config-dialrule>#no entry -prefix 010</config-dialrule>			
Show current dial-rule configshow			

5.1.2.4 Interface-Fastethernet-Lan Local area network(LAN) parameter configuration

Path : IP120<config-interface-fastethernet-lan>#

[Disa	ble] bridgir	ig mode	[no]bridgemode			
[Disable] enable DHCP service		DHCP service	[no]dhcp-server			
Show DHCP current rules:		rent rules:	dhcpshow			
Show IP address of LAN:		of LAN:	ipshow			
Show	NAT infor	mation:	natshow			
Chan	ige IP addre	ess of LAN	ip –addr x.x.x.x –mas	k x.x.x.x		
For	example:	IP120 <config-< th=""><th>interface-fastethernet-lan>#ip</th><th>–addr</th><th>192.168.1.10</th><th>–mask</th></config-<>	interface-fastethernet-lan>#ip	–addr	192.168.1.10	–mask
255.2	55.255.0					

When the phone is transfers data by NAT, don't use natshow command to view, otherwise it will result in system's temporary zero response.

XEnable bridge mode ,LAN configuration will be disabled, user is unable to access network by NAT of the phone.

5.1.2.5 Interface-Fastethernet-Wan wide area network parameter configuration

Path : IP120<config - interface - fastethernet - wan># [Disable] enable dhcp client-side service ---[no]dhcp [Disable] enable pppoe ---[no]pppoe [Disable] enable QOS ---[no]qos IP configuration of the phone ---gateway x.x.x.x **Clear IP configuration of the phone** ---no gateway **IP** address configuration ---ip –address x.x.x.x -mask x.x.x.x For example:IP120<config-interface-fastethernet-wan>#ip -addr 202.112.241.100 mask 255.255.255.0 Note : after changing the IP, telnet new IP again because IP has been changed. Show wide area network configuration: ---show 5.1.2.6 MMI FILTER (man-machine interface filter) Path : IP120<config-mmifilter># Add filter rule ---entry --start x.x.x.x --end x.x.x.x For example: IP120<config-mmifilter>#entry -start 202.112.20.1 -end 202.112.20.255 **Delete filter rule** ---no entry –start x.x.x.x For example: IP120<config-mmifilter>#no entry -start 202.112.20.1 **Check filter rule** ---show [Disable] enable man-machine interface filter ---[no]start-filter3.3.8 NAT parameter configuration Path : IP120<config - nat># [Disable] enable ftp alg ---[no]ftpalg [Disable] enable ipsec alg ---[no]ipsecalg [Disable] enable pptp alg ---[no]pptpalg Add TCP rule ---tcp-entry –ip x.x.x.x –lanport xxx –wanport xxx For example: IP120<config-nat>#tcp-entry -ip 192.168.1.5 -lanport 1720 -wanport 1000 **Delete TCP rule** ---no entry –ip x.x.x.x –lanport xxx –wanport xxx For example:IP120<config-nat>#no tcp-entry -ip 192.168.1.5 -lanport 5060 -wanport 1000 Add UDP rule ---udp-entry -ip x.x.x.x -lanport xxx -wanport xxx **Delete UDP rule** ---no udp-entry –ip x.x.x.x –lanport xxx –wanport xxx ---show **Check NAT configuration**

5.1.2.7 Network service configuration

Path : IP120<config - netservice>#

DNS address configuration	dns -ip x.x.x.x _domain xxx			
For example: IP120 <config-netservic< th=""><th>e>#dnsip 202.112.10.36 _domain voip.com</th></config-netservic<>	e>#dnsip 202.112.10.36 _domain voip.com			
Alter-DNS address configuration	alterdns -ip x.x.x.x _domain xxx			
Host name configuration	hostname xxx			
Http port configuration	http-port xxx			
Check current http configuration	http-port			
Configure telnet port	telnet-port xxx			
Check current telnet configurationtelnet-port				
Configuration of media startport and the port amountmedia-port -startport xxx				
–number xxxx				
For example:IP120 <config-netservice>#media-port -startport 10000 -number 200</config-netservice>				
Add Route rule	route –gateway x.x.x.x –addr x.x.x.x –mask x.x.x.x			
For example:IP120 <config-netservice>#route -gateway 202.112.10.1 -addr 202.112.210.1 -mask</config-netservice>				
	255.255.255.0			
Delete Route rule	no route –gateway x.x.x.x –addr x.x.x.x –mask x.x.x.x			
Check Route configurationroute				
Check current network service con	figurationshow			

5.1.2.8. Phone book outgoing call number binding configuration

Path : IP120<config - pbook>#

[Disable] enable GK and Proxy call[no]enableGKandProxy
Add IP number binding ruleentry -number xxx -ip x.x.x.x -protocol xxx
For example:IP120 <config-pbook>#entry –number 100 –ip 202.112.20.100 –protocol sip</config-pbook>
Add LIFELINE number entry -number xxx -protocol lifeline
For example:IP120 <config-pbook>#entry –number 110 -protocol lifeline</config-pbook>
Add number IP binding rule and add some numbers before the number
entry –number xxx –ip x.x.x.x –protocol xxx _add xxx
For example:IP120 <config-pbook>#entry -number 100 -ip 202.112.20.100 -protocol sip _add</config-pbook>
123(in this way when user dial 100, it will be equivalent
to dial 123100)
Add number IP binding rule and replace the current number by another number
entry –number xxx –ip x.x.x.x –protocol xxx _all xxx
For example:IP120 <config-pbook>#entry -number 100 -ip 202.112.20.100 -protocol sip _all</config-pbook>
123(in this way when user dial 100, it will be equivalent
to dial 123)
Add number IP binding rule and delete the X numbers in the front of the number
entry –number xxx –ip x.x.x.x –protocol xxx _del xxx

For example:IP120<config-pbook>#entry –number 1234 –ip 202.112.20.100 –protocol sip _del 2(in this way when user dial 1234,it will be equivalent

to dia	al 34)		
Add number IP binding rule and replace part of the numbers in the front of the number			
entry	-number xxx -ip x.x.x.x -protocol xxx _rep xxx		
	_length xxx		
For example:IP120 <config-pbook>#entry -number 1234 -ip 202.112.20.100 -protocol sip _rep</config-pbook>			
567 _length 2(in this way when user dial 100, it will be			
equivalent to dial 56734)			
Delete number binding rule	no entry –number xxx		
Check current number binding rule	show		
Current default VOIP protocol configuration default-protocol xxx			

5.1.2.9 Port configuration

If entering "port" under the "config" node , then the configuration will go into effect for all ports, if entering "port X", then the configuration will only into effect for X port (X represents a certain port number), but some functions will not go into effect for all ports , so user must enter" port X" when configurating, otherwise it is shown as" Error : Missing parameter ". Path : IP120<config - port># or IP120<config - X># Set accept relay mode ---accept-relay xxx Set caller ID mode ---callerid xxx No caller ID ---no callerid **Call forwarding configuration** ---callforward -conditon xxx -number xxx -ip xxx -port xxx -protocol xxx For example: IP120<config-port 0>#callforward -condition busy -number 100 -ip 202.112.10.100 -port 5060 -protocol sip

	1 1
Disable call forwarding	no callforward
[Disable] enable call transfer (CT)	[no]calltransfer

Note :after
Call transfer function is enabled ,user make hooking operation to implement transfer

after starting the phone call.				
[Disable] enable call waiting	[no]callwa	[no]callwaiting		
DSP priority encoding mode c	onfiguration	codec xxx		
Set DTMF port volume	dtmfvolume xxx			
set fastcalled number fas	stcalled xxx			
No fast called number (FXO)no fastcalled				
Show fast called number (FXO)fastcalled				
Set fast calling number(FXS)	fastcalling xxx			
No fast calling number (FXS)	no fastcalling			
Show fast calling number (FXS)fastcalling			
[Disable] enable FAX ECM	[no]faxecm			
Fax mode configuration	faxmode	e xxx		

Fax rate configuration	faxrate xxx	
Fax volume config	faxvolume xxx	
Set DSP handdown validation time	handdown xxx	
Set handup delay of FXOhandu	p xxx	
Add phone numbers to in-limit blacklist	in-limit xxx	
Check in-limit blacklist configurationin		
Set DSP input volume input xxx		
Configure port number	number xxx	
Add phone numbers to out-limit list	out-limit xxx	
Check out-limit list configuration	out-limit	
Configure DSP output volumeoutput xxx		
Set port checking mode of the same numbers as polluppollup		
Set port checking mode of the same numbers as no pollup no pollup		
Set the phone prefix	prefix xxx	

Add [delete] private server FXS matching numbers ---private [no]destination-pattern -

number xxx _protocol (noregisterlpubliregisterlprivateregisterlall)

Note : user can configure different kinds of numbers in different ports or the same port , the system

will automatically go into effect according to the protocol configured : "noregister" means that this

number will never be used for gk or proxy register ;"publicregister" means that this number is used

for public server register and call ; "privateregister" means that this number is used for private

server register and call ; "all" means that this number is used for all protocol register or point-to-point call. The appointed protocol of the system default configured number is "all". The following configurations have the same meaning of this configuration. For example:IP120<config-port 0>#private destination-pattern 1000

Add outgoing call number to the private server FXO ---private destination-prefix -

number xxx+T _protocol

For example:IP120<config-port >#private destination-prefix 1000T

Add the outgoing call number to the private server FXO and set suffix

---private destination-prefix -number xxx+T _suffix

XXX

For example:IP120<config-port >#private destination-prefix 1000T_suffix 456

Add the outgoing call number to the private server FXO and set prefix

---private destination-prefix -number xxx+T _prefix

XXX

For example:IP120<config-port >#private destination-prefix 1000T _prefix 789 Delete the matching outgoing call number of private server ---private no

destination-prefix –number xxx+T	
For example: IP120 <config-port>#private no de</config-port>	stination-prefix 1000T
Add [delete] the matching numbers o	f the public server FXSpublic
[no]destination-pattern - number xxx _protoco	l
Add outgoing call number to the public serve	er FXO public destination-prefix -
number xxx+T _protocol	
Add the outgoing call number to the public se	rver FXO and set suffix
pı	blic destination-prefix -number xxx+T _suffix
	XXX
Add the outgoing call number to the public se	rver FXO and set prefix
pı	blic destination-prefix -number xxx+T -prefix
	XXX
Delete the matching outgoing call numb	er of public server public no
destination-prefix –number xxx+T	
[Disable] enable outgoing call	[no]shutdown out
[Disable] enable outgoing call	[no]shutdown in
[Disable] enable outgoing call and outgoing ca	all[no]shutdown
[Disable] enable three way call	[no]threetalk

Note : after the three-way-call function is enabled , user make hooking operation and then press \ast

key to implement this function. For example, user A call user B , after the phone call starts, A

makes hooking operation to hold B, and then presses * key to receive dialing tone, and then call

user C , after starting the phone call with C, A makes hooking operation again and recover the call

with B, in this way, A, B and C can begin the three-way-call.

Set Tone Type	tontype xxx	
Check port configuration	show	

5.1.2.10 PPPOE configuration

Path : IP120<config - pppoe>#

PPPOE username, password configuration---auth –user xxx -password xxxFor example:IP120<config-pppoe>#auth –user aaa –password 123456[**Disable] PPPOE service**---[no]service xxxShow PPPOE parameters configuration---show

5.1.2.11 QOS configuration

Path : IP120<config - qos>#

[Delete] add network address of 802.1p configuration list --- [no]entry -addr x.x.x.x -mask x.x.x.x For example:IP120<config-qos>#entry -addr 202.112.10.1 -mask 255.255.255.0 [Exclude] include QOS list ----[no]include Show all 802.1p priority guarantee configuration ---show

Note : after the "qos" is enabled acquiescently, the system will add qos acquiescently to all

sending-out "rtp" packages , when user configure "qos table" and "include" , the system only sends voice packets with "qos" to the "ip" included in the table, and those of "no include" will be sent to the "ip" which is not included in the " gos table".

5.1.2.12 SIP configuration

Path : IP120<config - sip>#

[Disable] enable register to SIP ---[no] register [Disable] enable automatic detection server ---[no] detect-server Set DTMF mode ---dtmf-mode xxx Set detection interval time ---interval-time xxx Set RFC edition ---rfc-version xxx Disable [enable] auto-swap server [no]swap-server Set passwords to phone numbers of the ports ---number-password --number xxx -password xxx SIP signal port configuration --- signalport xxx SIP Proxy parameters configuration --server proxy -ip x.x.x.x _port xxx _user xxx _password xxx For example:IP120<config-sip-server># proxy ip 210.25.23.22 port 5060 user aaa password 123456 SIP Register server parameters configuration ---server register -ip x.x.x.x _port xxx _user xxx _password xxx Alternate-proxy-server setup ---alter-server proxy –ip x.x.x.x port xxx user xxx _password xxx Alternate-register-server setup ---alter-server register -- ip x.x.x.x _port xxx _user xxx _password xxx [Disable] enable stun server ---stun [no]enable Set stun server detection interval time ---stun interval-time xxx Set the stun server address and port ---stun –ip x.x.x.x –port xxx Show all current relevant SIP parameters configuration ---show

Note : private server and public server have the same configuration , changing the configuration

under "server" into private-register and private-proxy will do.

5.1.2.13 UDP TUNNEL configuration

Path : IP120<config - udptuunel>#

[Disa	ble] enable Udp tunnel	[no] start-tunnel				
set tu	innel port	tunnelport xxx				
Add	udptunnel rule	entry -addr x.x.x.x -mask x.x.x.x -tunneladdr x.x.x.x				
			-tunnelj	port xxx		
For	example:IP120 <config-udptuu< th=""><th>inel>#entry</th><th>–addr</th><th>202.112.10.1</th><th>–mask</th><th>255.255.255.0</th></config-udptuu<>	inel>#entry	–addr	202.112.10.1	–mask	255.255.255.0
-tunneladdr 210.22.25.24 -tunnelpor				lport 500		
Delet	e udptunnel rule	no entry –addr x.x.x.x –mask x.x.x.x				
Show	udp tunnel configuration		S	how		

5.1.2.14 User management configuration

Path : IP120<config - user>#

Modify user authority	access –user xxx –access xxx		
For example:IP120 <config-user>#access -user aaa -access 7</config-user>			
Modify user password	password –user xxx		
Add users	entry –user xxx –access xxx		
For example:IP120 <config-user>#entry –user abc –access 7</config-user>			
Delete users	no entry –user xxx		
View all users information	show		

5.2 Other configurations outside the Config node

5.2.1 Account charging module configuration

Path : IP120 <config -="" account="">#</config>			
[Disable] enable Syslog	syslog [no] start		
Configure Syslog server address and port	syslog server –ip x.x.x.x _port xxx		
For example:IP120 <config-account-syslog>#server -ip 202.112.20.10</config-account-syslog>			
Check Syslog configuration information	syslog show		
Check all charging configuration information	onshow		

5.2.2 Time configuration

Path : IP120<time>#

Set the time manually	manualset -year xxx -month xxx -day xxx
	-hour xxx -minute xxx -second xxx
For example: IP120 <time>#manulset -year 2004 -</time>	-month 10 -day 1 -hour 8 -minitute 30 -second

	0		
[Disable] enable sntp	sntp [no] start		
Set the address of sntp server	sntp server x.x.x.x		
Set the effective time of sntp	sntp timeout xxx		
Set the sntp time zone	sntp zone xxx		
View sntp information	sntp show		
View current time	print		

5.2.3. System upgrading command

Path : IP120#

Upgrade application program by FTP	update ftp -user xxx -password xxx -ip
x.x.x.x –file xxx	
For example:IP120# update ftp –user abc –pass	word 123 - ip 202.112.20.15 - file abc.dlf
Upgrade application program by TFTP	update tftp –ip x.x.x.x –file xxx
Upload configuration files by FTP	upload ftp -user xxx -password xxx -ip
X.X.X.X	
	–file xxx
Upload configuration files by TFTP	upload tftp –ip x.x.x.x –file xxx
Download configuration files by FTP	download ftp -user xxx -password xxx
	–ip x.x.x.x –file xxx
Download configuration files by TFTP	download tftp –ip x.x.x.x –file xxx

5.2.4 Other command

Path : IP120#

Set all module debug level	debug all xxx			
Set app module debug level	debug app xxx			
Set cdr module debug level	debug cdr xxx			
Set sip module debug level	debug sip xxx			
Set h323 module debug level	debug h323 xxx			
Set tel module debug level	debug tel xxx			
Set dsp module debug level	debug dsp xxx			
Close all modulars debug	debug no all			
Close app modulars debug	debug no app			
Close cdr modulars debug level	debug no cdr			
Close sip modulars debug level	debug no sip			
Close h323 modulars debuglevel	debug no h323			
Close tel modulars debug level	debug no tel			
Close dsp modulars debug level	debug no dsp			
Recover the factory default setting	setdefault			
Recover all modules to the factory of	lefault setting	setde	fault all	
Show a certain module information		show xxx		
Active user update password	passwo	rd		

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Telnet rlogin --- telnet x.x.x.x Telnet by specific port --- telnet x.x.x.x –port xxx Logout command for Telnet user ---logout Switch to Chinese help ---chinese Switch to English help ---english Save configuration ---write Restart ---reload View help ---help Exit current node ---exit **Clear screen** ---clear PING remote terminal host computer --- ping x.x.x.x **Broadcast to all CLI users** ---broadcast xxx show system history record ---history **Terminal parameter settings** ---stty row xxx or stty columns xxx Send message to appointed users ---sendmsg Show current login users ---who **Trace command** ---trancert x.x.x.x Add alias ---alias xxx xxx **Execute a document** ---exec xxx **Echo input** ---echo xxx

- X After recovery of default configuration, restart system directly without saving the configuration.
- * Technicians or administrator can know in more detail about information of the system by "debug" message. Debug message is divided into 0-7 level, technicians can open messages of different levels as required.