# AT-530 User Manual

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## 1. AT-530 Features 1.1 Appearance



## 1.2 Interface



Power: Output Power:12VDC,800mA.

- WAN: RJ45 port.
- LAN: RJ45 port.

## 1.3 Software

- Support two sip accounts at the same time.
- Redundancies server support.
- NAT, Firewall.
- DHCP client and server.
- Support PPPoE, (used for ADSL, cable modem connecting).
- Support major G7.xxx CODEC.
- VAD,CNG.

- G.165 compliant 16ms echo cancellation
- Tone generation and Local DTMF re-generation according with ITU-T
- E.164 dial plan and customized dial rules
- Hotline.
- Speed Dial
- Call Forward, Call Transfer, 3-way conference calls
- Record
- Caller ID display
- DND(Do Not Disturb),Black List,Limit List
- Upgrade firmware through FTP, TFTP or HTTP,.
- Web management.
- Telnet remote management.
- adjustable user password and super password

## **1.4 Standard and Protocols**

- IEEE 802.3 /802.3 u 10 Base T / 100Base TX
- PPPoE: PPP Protocol over Ethernet
- DHCP Client and Server: Dynamic Host Configuration Protocol
- G.711 u/a; G729, G7231 5.3/6.3 audio Codec
- SIP RFC3261, RFC 2543
- TCP/IP: Internet transfer and control protocol
- RTP: Real-time Transport Protocol
- RTCP: Real-time Control Protocol
- VAD/CNG save bandwidth
- Telnet: Internet's remote login protocol
- DNS: Domain Name Server
- TFTP: Trivial File Transfer Protocol
- HTTP: Hyper Text Transfer protocol
- FTP: File Transfer protocol

## **1.5** Operating requirement

- Operation temperature: 0 to 40° C (32° to 104° F)
- Storage temperature: -30° to 65° C (-22° to 149° F)
- Humidity: 10 to 90% no dew

## 1.6 Package

- Size: 338×220×85mm
- Packing List
  - ✓ One AT-530 IP phone
  - ✓ One Power adaptor
  - ✓ One CD

## 1.7 Installation

Use ethernet cable to connect AT-530's LAN port and your computer. Set your computer's ip to the network 192.168.10.x or using dynamic obtain IP. Open your web browser and key in 192.168.10.1. Then you will see the logon page of AT-530, the default username and password is admin/admin for administrator and guest/guest for guest.

Set up page for VoIP use only:



## 2. Web Configuration

# 2.1 Access Web setting page

Enter AT-530 IP address in the web browser and press ENTER to go to the log on page, and key in the username and password to access AT-530 setting page. Default username and password is:

Administrator:	Username: admin	password: admin
User:	Username: guest	Username: guest

Carrent State	Is the admit
Hetwork	2
Tell	
Advance	. Lape.
Ded anot	
Config Manage	
lindate	
System Manage	

## 2.2 Current state

				Running Statu
work	Connect Mode	DHCP	MAC Address	00:09:45:52:8a:64
WAN	IP Address	192.168.1.58	Gateway	192.168.1.1
LAN	IP Address	192.168.10.1	DHCP Server	ON
P	Register Server	192.168.1.167	Proxy Server	192.168.1.167
	riegiotor corror			
SIP	Register	ON	State	Registered

This page shows AT-530's running state.

Network shows the WAN and LAN port connecting state and current settings.

VoIP part show the working state of VoIP, you can see whether AT-530 has registered the public sip server or H323 server.

Phone Number shows the H323, public sip and private sip phone numbers.

## 2.3 Network

#### 2.3.1 Wan Config

			IP P	hc	one		
						WAN Configuration	
Act	ive IP	Curi	ent Netmask	N	IAC Address	Current Gateway	
192.1	68.1.58	25	55.255.255.0	00	:09:45:52:8a:64	192.168.1.1	
Mac O Static	Authenti	cating Code				Valid MAC	
	IP	Address	192.168.1.179		Netmask	255.255.255.0	
Static	0	≽ateway	192.168.1.1	22.168.1.1 DNS Domain 12.96.134.133 Atternate DNS			
	Pri	mary DNS	202.96.134.133			202.96.128.68	
PPPOE Server ANY							
lleern	me	user123					
Userna	Password						

Apply

WAN port network setting page.

Support static IP, dynamic obtain IP and PPPoE.

Configure Static IP:

----Enable Static;

- ----Set AT-530's IP address in the IP Address;
- ----Set netmask in the Netmask field;
- ----Set router IP address in the Gateway;
- ----DNS Domain:

----Set local DNS server in the Preferred DNS and the Alternate DNS

- Configure to dynamic obtain IP
  - ----Enable DHCP;

If there is DHCP server in your local network, AT-530 will automatically obtain WAN port network information from your DHCP server.

#### Configure PPPoE:

----Enable PPPoE

----PPPoE server: Enter "ANY" if no specified from your ITSP.

----Enter PPPoE username and pin in the username and password.

AT-530 will automatically obtain WAN port network information from your ITSP if PPPoE setting and the setup are correct.

Notice: If user accesses the IP phone through WAN port. He/She should use the new IP address to access the IP phone when the WAN port address was changed.

#### 2.3.2 LAN Config

IP Phone							
	LAN Configuration						
Bridge Mode							
₽ 192.168.10.1	Netmask 255.255.0						
DHCP Service     Highest Priority of Voice Quality	NAT						
If you modify Bridge Mod	e,lp or Netmask,the device will auto save and reboot !						
	(Apply)						

Bridge Mode: Enable this option to switch to bridge mode. IP phone won't assign IP for its LAN port in bridge mode and its LAN and WAN port will be in the same network. (This setting won't take effect unless you save the config and reboot the device)

- IP,Netmask: Set the IP and Netmask for the LAN
- DHCP Server: Enable DHCP service in LAN port
- NAT: Enable NAT.

Highest Priority of Voice Quality: Enable this option to guarantee voice quality. If there is high flux in the LAN port, AT-530 will limit the stream rate.

#### 2.4 VoIP 2.4.1 SIP Config

IP Phone									
SIP[Unregistered] Configuration									
Register Server Addr	192.168.1.167	Proxy Server Addr							
Register Server Port	5060	Proxy Server Port							
Register Username	9000	Proxy Username							
Register Password	••••	Proxy Password							
Domain Realm		Local SIP Port	5060						
Phone Number	9000	Register Expire Time	60 seconds						
Detect Interval Time	60 seconds	RFC Protocol Edition	RFC3261 🗸						
DTMF Mode	DTMF_RELAY	User Agent	common 💌						
🗹 Enable Register		Auto Detect Server							
Enable Pub Outbound Pr	оху	Server Auto Swap							

Apply

Setting page of public SIP server:

Register Server Addr: Register address of public SIP server Register port of public SIP server Register Server Port: Username of your SIP account (Always the same as the Register Username: phone number) Register Password: Password of your SIP account. Proxy Server Addr: IP address of proxy SIP server (SIP provider always use the same IP for register server and proxy server, in this case you don't need to configure the proxy server information.) Proxy Server Port: Signal port of SIP proxy Proxy Username: proxy server username Proxy Password: proxy server password Domain Realm: SIP domain, enter the sip domain if any, otherwise AT-530 will use the proxy server address as sip domain. Local SIP register port, default 5060 Local SIP port: Phone number of your SIP account Phone Number: Register Expire Time: register expire time, default is 600 seconds. AT-530 will auto configure this expire time to the server recommended setting if it is different from the SIP server. Co-work with the Auto Detect Server, if Auto Detect Detect Interval Time: Server is enable, AT-530 will periodically detect if the SIP server is available according this setting.

RFC Protocol Edition: Current AT-530 SIP version. Set to RFC 2543 if the gate need to communicate to devices (such as CISCO5300) using the SIP 1.0. Default is RFC 3261.

Enable Register: Enable/Disable SIP register. AT-530 won't sent register info to SIP server if disable register.

DTMF Mode: DTMF signal sending mode: support RFC2833, DTMF\_RELAY (inband audio) and SIP info

Auto Detect server: co-work with Server Auto Swap and Detect Interval Time. Enable this option, AT-530 will periodically detect whether the public SIP server is available, if the server is unavailable, the AT-530 will switch to the back-up SIP sever, and continue detecting the public sip server. AT-530 will switch back to the primary SIP server if the server is available again.

Server Auto Swap: Please refer to *Auto Detect server* for detail. SIP(Default Protocol): Use SIP protocol as Default Protocol.

## 2.5 Advance

## 2.5.1 DHCP Server

							DI	HCP Service		
DNS Relay										
				Apply						
Name	Start I	P	End IP	Lease Time	N	etmask	Gateway	DNS		
lan2005	192.168.10.3	2	192.168.10.50	1440	255.25	55.255.0 192.168.10.1 192.168.10.1		192.168.10.1		
Lease Table	Name			Lease Time			minu	te		
Start IP				End IP						
Netmask				Gateway				Add		
DNS										
Lease Table Name		lan20	05 🖌					Delete		

DHCP server manage page.

User may trace and modify DHCP server information in this page.

DNS Relay: enable DNS relay function.

User may use below setting to add a new lease table.

Lease Table Name: Lease table name.

Lease Time: DHCP server lease time.

Start IP: Start IP of lease table.

End IP: End IP of lease table. Network device connecting to the AT-530 LAN port can dynamic obtain the IP in the range between start IP and end IP.

Netmask: Netmask of lease table.

Gateway: Default gateway of lease table

DNS: default DNS server of lease table.

Notice: This setting won't take effect unless you save the config and reboot the device

2.5.2 NAT										
IP Phone										
						NAT	Configuration			
PSec ALG				FTP ALG						
PPTP ALG										
	Apply									
Inside IP		Inside TC	P Port		Outside	TCP Port				
Inside IP		Inside UD	P Port	t Outside UDP Port						
Transfer Type	ТСР 🔽			Outside Port						
Inside Ip				Inside Port						
		Ad	d	Delete						
							DMZ Table			
	Outside IP					Inside IP				
Outside IP			Inside IP				Add			
Outside IP	<b>v</b>						Delete			

Advance NAT setting. Maximum 10 items for TCP and UDP port mapping.

Enable/Disable H323 ALG;
Enable/Disable IPSec ALG;
Enable/Disable FTP ALG;
Enable/Disable PPTP ALG;

Transfer Type:Transfer type using port mapping.Inside IP:LAN device IP for port mapping.Inside Port:LAN device port for port mapping.Outside Port:WAN port for port mapping.

Click Add to add new port mapping item and Delete to delete current port mapping item.

#### 2.5.3 Net Service

				Net Service
HTTP Port	80	]	Telnet Port	23
RTP Initial Port	10000	]	RTP Port Quantity	200
		App	ly	
				DHCP Lease Table
Leased IP Address			Client Hardware Address	
192.168.10.4			00-09-45-52-06-3f	
192.168.10.3			00-09-45-63-75-98	
192.168.10.2			00-0f-1f-a0-26-87	

HTTP Port: configure HTTP transfer port, default is 80.User may change this port to enhance system's security. When this port is changed, please use <u>http://xxx.xxx.xxx.xxx.xxx/</u> to reconnect.

Telnet Port: configure telnet transfer port, default is 23.

RTP Initial Port: RTP initial port.

RTP Port Quantity: Maximum RTP port quantity, default is 200

Notice:

Settings in this page won't take effect unless save and reboot the device.

If you need to change telnet port or HTTP port, please use the port greater than 1024, because ports under 1024 is system remain ports.

HTTP service if HTTP is set to 0.

#### 2.5.4 Firewall settings

						Firewal	l Config	uratio
in_access enabl	e			out_	access enable	•		
			(	Apply				
						Firewall In	put Rule	e Tab
Index Deny/Permit	Protocol	Src Addr	Src Ma	sk	Des Addr	Des Mask	Range	Port
ndex beny/Permit	FIOLOCOI	SIC AUDI	SI C Masi		es Audi	Des Mask	Kange	POIL
nput/Output Input	~			Deny/Perr	nit Deny 🔽			
Protocol Type UDP	~			Port Rang	e more than	<ul> <li>Image: A start of the start of</li></ul>		
Src Addr				Des Addr				
Src Mask				Des Mask				
			C	Add				
Input/Output Input	~			Index to b	e deleted			
			6	alata ]				

Firewall setting page. User may set up firewall to prevent unauthorized Internet users from accessing private networks connected to the Internet (input rule), or prevent unauthorized private network devices to access the internet.

Access list support two type limits: input\_access limit or output\_access limit. Each type support 10 items maximum.

AT-530 firewall filter is base WAN port. So the source address or input destination address should be WAN port IP address.

#### Configuration:

in\_access enable enable in\_access rule
out\_access enable enable out\_access rule
Input/Output: specify current adding rule is input rule or output rule.
Deny/Permit: specify current adding rule is deny rule or permit rule.
Protocol Type: protocol using in this rule: TCP/IP/ICMP/UDP.
Port Range: port range if this rule
Src Addr: source address. Can be single IP address or network address.
Dest Addr: destination address. Can be IP address or network address.
Src Mask: source address mask. Indicate the source is dedicate IP if set to 255.255.255.255.255.0therwise is network ID

Des Mask: Destination address mask. Indicate the source is dedicate IP if set to 255.255.255.255.255. Otherwise is network ID

#### 2.5.5 QoS settings

	802.1p Configuration
QOS Enable	GOS Table Include
	Submit
IP	Netmask
IP IP	Hetmask
IP IP	Netmask

#### Add Delete

AT-530 IP phone implement QoS based on 802.1p, The QoS is used to mark the network communication priority in the data link/MAC sub-layer. AT-530 will sorted the packets using the QoS and sends it to the destination.

#### QoS Enable: Enable QoS service.

QoS Table Include: enable include QoS table, AT-530 will only provide QoS service to the network address included in the QoS table. Disable the option. AT-530 provides QoS service to the network address outside the QoS table.

QoS Table Item: user can set the QoS Table using IP and Netmask. the IP can be network address or dedicate IP address (set netmask to 255.255.255.255)

Delete QoS Table: enter the IP/Netmask configure and select delete to delete corresponding item.

#### 2.5.6 Advance SIP settings

		Adv Public[Registere STUN N	vance SIP Configura d]Private[Unregiste NAT Transverse[FAI
STUREORY ATT		STUD Server Port	0470
Public After Registra		Public After Pressy	
Fingkstor Finm	506C	Pressy Ferr	
Finglisher Hoomaine		Pecky Uppmono	
Registra Doseward		Proxy Deseword	
Primate Register		PriMate Prinky	
Freister For	£060	Pressy Ferr	
Finglisher Heermanne		Pecky Uppmono	
Registra Doseward		Proxy Deseword	
Private Comple		Popins The	30
PetMoto Isumbor		STURFITCT Inc.	ور, ۲ 50
Private User Ager I	icium in 💌	📃 Lhabe SHStun	
🔲 Ennore Erividie Pogiste	r	📃 Ennold Erividio Culta	nund Percey

This page is used to set the private sip server, stun server, and back up sip server information.

STUN Server setting:

STUN Server Addr: STUN Server Port: STUN Effect Time: Enable SIP STUN: configure stun server address; configure stun server port default 3478 stun detect NAT type circle, unit: minute. enable/disable stun.

Public Alter Register		Public Alter Proxy	
Register Port	5060	Proxy Port	
Register Username		Proxy Username	
Register Password		Proxy Password	

Public Alter Register: Public Alter server provide redundancy for the public server, if the public server is unavailable, AT-530 will use the alter server, and switch back to the public server when it is available. Account setting in public alter setting should be the same as the public server.

Please refer to <u>SIP Config</u> for the setting for how to set the public alter server.

Private Register		Private Proxy	
Register Port	5060	Proxy Port	
Register Username		Proxy Username	
Register Password		Proxy Password	
Private Domain		Expire Time	60 seconds
Private Number		STUN Effect Time	50 minute

User can register two sip servers: public sip server and private sip server.these two sip servers are independent from each other and running in the same time.

For how to configure private sip server. Please refer to SIP Config

#### 2.5.7 Digital Map

		IP Phon	е
			Digital Map Configuration
	<ul> <li>End with "#"</li> <li>Fixed Length</li> <li>User-defined</li> <li>Time out 5</li> </ul>	11 Rule (330) Apply Digital Map Table	
Prefix Number		Length	
Prefix Number		ength	Lad
Prefix to be deleted	 ✔	]	Delete

Digit map is a set of rules to determine when the user has finished dialing.

AT-530 support below digital map:

Digital Map is based on some rules to judge when user end their dialing and send the number to the server. AT-530 support following digital map:

----End With "#": Use # as the end of dialing.

----Fixed Length: When the length of the dialing match, the call will be sent.

----Timeout: Specify the timeout of the last dial digit. The call will be sent after timeout

----Prefix + Length: If the Prefix and Length match, the call will be sent.

		Call Service		
Hotline				
Call Forward	⊙ Off ○ Busy ○ No Answer ○ Alway	s		
	Phone Number Addr	Port 5060		
🗌 No Disturb		Ban Outgoing		
🗹 Enable Call Tr	ansfer	Enable Call Waiting		
🗹 Enable Three	Way Call	🗹 Accept Any Call		
🗌 Auto Answer		Enable Voice Record		
User-Defined	Voice	Incoming Record Playing		
20 No Answ	er Time(seconds)			
	Ap	ply		
Black List				
	Add	Delete		
Limit List				
	Add	Delete		

## 2.5.8 Call Service Settings

User configure the value add service such as hotline, call forward, call transfer, 3-way conference call .etc in this page

Hotline: configure hotline number. AT-530 immediately dials this number after hook-off if it is set.

Call Forward: Please refer to Value add service for detail.

No Disturb: DND, do not disturb, enable this option to refuse any calls.

Ban Outgoing: Enable this to ban outgoing calls.

Enable Call Transfer: Please refer to Value add service for detail.

Enable Three Way Call: Please refer to <u>Value add service</u> for detail.

Enable Call Waiting: Enable/disable Call Waiting

Accept Any Call: If this option is disable, AT-530 refuse the incoming call when the called number is different from AT-530's phone number.

No Answer Time: no answer call forward time setting.

Auto Answer: Enable/disable auto answer function.

Enable Voice Record: Enable/disable answering machine function. Please refer to <u>Record Function</u> for detail.

User-defined Voice: Use customized greeting message.

Incoming Record Playing: simultaneously play the message when recording.

Black List: incoming call in these phone numbers will be refused.

Limit List: outgoing calls with these phone numbers will be refused

#### 2.5.9 MMI Filter

					MMI Filte
MMI Filter					
			Apply		
Start IP			End IP		
Start IP		End IP			Add
Start IP to be de	eleted 🔽				Delete

When MMI filter is enable. Only IP address within the *start IP* and *end IP* can access AT-530 IP phone.

MMI filter is used to make access limit to AT-530 IP phone.

#### 2.5.10 Audio Settings

		IP I	Phone		
				DSP (	Configuration
Coding Rule G7111 Ilaw64k V G729 Pavload Length 20ms V					
Signal Standard	China	~	Handdown Time	200	ms
Input Volume	3	(1-9)	Output Volume	7	(1-9)
Handfree Volume	4	(1-9)	VAD		

Apply

CODEC: select the prefer CODEC; support ulaw, alaw,G729 and G7231 5.3/6.3Signal Standard:Signal standard for different area.Input Volume:Handset in volume.Output Volume:Handset out volume.Handfree Volume:Hand free volumeHanddown Time:hand down detect time.G729 Payload Length:G729 payload lengthVAD:Enable/disable Voice Activity Detection

# 2.6 Dial-Peer Settings

## Dial-Peer

Number	Call Mode	Destination	Port	Alias	Suffix	Del length
2Т	sip	255.255.255.255	5060	del	no suffix	1
ЗТ	sip	0.0.0.0	5060	del	no suffix	1
123	sip	0.0.0.0	5060	all:8675583018049	no suffix	0
ОТ	sip	0.0.0.0	5060	rep:86	no suffix	1
179	sip	192.168.1.179	5060	no alias	no suffix	0

Add Delete Modify 2T 💌

Please refer to How to use dial rule for detail.

# 2.7 Config Manage

Save Config: save current settings. Clear Config: restore to default settings.

Notice: clear config in admin mode, all settings restores to factory default; clear config in guest modem, all settings except H323, sip, advance sip restore to factory default.

## 2.8 Update

Web Update: Update IP phone's settings or firmware. Firmware file is .z extension when configure file is .cfg extension, AT-530 will auto select configure update or firmware update according the extension.

TFTP/FTP Update: upload/download the configure file with FTP or TFTP server. or download firmware from FTP or TFTP server

## 2.9 System Manage

## 2.9.1 Account Manage

	Account Configuration
Keypad password	•••
	(Arrah)
	Apply
User Name	User Level
admin	Root
guest	General
6	ld Delete Modify guest 🗸

Set web access account or keypad password of AT-530.

#### 2.9.2 Phone Book:

#### 2.9.3 Syslog Config:

#### 2.9.4 Time Set:

#### 2.9.5 Reboot:

Reboot IP phone, some setting needs to reboot to make it works. Please always save config before reboot, otherwise the setting will return to previous setting.

# 3 Use keypad configure AT-530 IP phone

# 3.1 Keypad function

User can configure AT-530 through its keypad. List below is the keypad function

Keypad	Mode	Function/Display
Idle mode		show current time
Sysinfo	Idle mode	circularly show phone number,wan ip, gateway info
Menu/OK	Idle mode	enter config mode, default password 123
	config mode	confirm or enter sub-menu
Exit	config mode	exit
Up	Calling mode	volume up (Max:9)
	config mode	Page up
Down	Calling mode	volume down (Min:1)
	config mode	Page down
Del	Calling mode	Delete digits
	config mode	Delete digits
Mute	Calling mode	Mute
Out call	Idle mode	Outgoing call menu
In call	Idle mode	Incoming call menu
Record	Idle mode	Enter record menu, usage refer FAQ
Pbook	Idle mode	Enter Phone book set up
Handfree	Calling mode	Handfree
0 - 9	Calling mode	Digits 0~9
	config mode	Hit quickly to switch between numeric or alphabetic
*	Calling mode	Use in <u>3-way conference call.</u>
	config mode	Use as "." In the ip address setting
#	Calling mode	Use as end key of dialing or the dial number
Hold	Calling mode	Hold, detail refer value add service
FWD	Calling mode	Transfer, detail refer value add service
Redial	Calling mode	Redial key
Send	Calling mode	call key
No.1~No.9	Idle mode	Speed dial key

## 3.2 Keypad Menu

User may use **SET**, **Menu/ok**, **Exit**, **Vol+**, **Vol-** to config AT-530 detail setting. Press **Menu/ok** to enter config mode, and the default password is 123.

Below list the keypad menu of AT-530

AT-530 Keypad Menu				
Level 1	Level 2	Level 3	Level 4	
Network	LAN	IP	•	
		Netmask		
		DHCP Server		
		NAT	Switch	
			FTPalg	
			IPSec alg	
			PPTPalg	
	WAN	Status		
		Static Net	1. IP	
			2. NetMask	
			3. Gateway	
			4. DNS	
			5. DNS2	
		PPPoE	User name	
			Password	
		QoS	•	
Call Feature	Phone-number	H323		
		Public SIP		
		Private SIP		
	Limit-List	Current		
		ADD		
		DEL		
	Black-List	Current		
		ADD		
		DEL		
	FastCall			
	Three Call			
	Call-Transfer			
	Call-Waiting			
	Call-Forward	Condition		

I		H.323	Transfer Num		
			Transfer IP		
			Port		
		SIP	Transfer Num		
			Transfer IP		
			Port		
	Dial-Rule	End With #			
		Fixed Length	Switch		
			Length		
	1	•	-		
SIP	Reg Status	Public Reg			
		Private Reg			
	Reg Switch	Public			
		Private			
	Server	Public	Register		
			Proxy		
			Alt-Register		
			Alt-Proxy		
		Private	Register		
			Proxy		
	Domain	Public			
		Private			
	User Agent	Public			
		Private			
	Detect-server				
	Dtmf-mode				
	Interval-time				
	Swap-server				
	RFC-version				
	Signal-Port				
	Stun	Switch			
		Addr			
		Port			
		Effect Time			
052	Codec				
	Handdown-time				
	Dtmf-Volume				

	Input-volume		
	Output-Volume		
Other Setting	Syslog	Switch	
		Server-IP	
		Server-Port	
4. System	1. Save		
	2. Reboot		
	3. Set Default		

## 4 Telnet Console

#### 4.1 Introduce

#### 4.1.1 Basic structure

User may use telnet command to access and manage IP phone.

AT-530 adopts tree structure for telnet. Every node contains its sub-nodes or local command. User can type "help" or "?" whenever to see sub-nodes and all local command under current node.

Besides local command, there are some global commands can be used in each node.

4.1.2 Basic command

Logout: exit telnet mode.

Write: save current settings.

Type sub-nodes name in current node to switch to sub-node. Type "!" or "exit" in current node to return to parent-node.

Type "help" or "?" can see all sub-nodes and all local command under current node, every help item has comments such as <command> or <node> to distinguish sub-nodes and local command. Type "help" or "?" in command can see all parameters using in this command.

When typing node name or command, user no need to key the full name, use TAB button will make it more efficient.

There are two types in command parameters: optional and required. "required" parameter use "-" as prefix and "optional" use "\_" as prefix. User may type "-" or "\_" then press TAB button for complementarily.

## 4.2 Global Command

Global command is available under all nodes, AT-530 support following commands:

Command	Function	Example
chinese	Set to Chinese UI	#chinese
clear	Clear telnet screen	#clear
english	Set to English UI	#english
exit	Return to parent-node	#exit
help	1. Show help info	1. #help ping
	2. Show sub-nodes and local command	2. #help
history	Show command history	#history
logout	Exit	#logout
ping	Ping command, use to check network,	#ping www.google.com
tree	Print tree structure of current command	#tree
who	Show current user	#who
write	Save setting to flash	#write

#### 4.3 Tree Structure

4.3.1 account path: <account># [stop]start Syslog ---syslog [no] start Configure Syslog server address and port ---syslog server -- ip x.x.x.x port xxx Example: #<config-account-syslog>#server -- ip 202.112.20.10 Show syslog settings ---syslog show Show all account settings ---show 4.3.2 config accesslist firewall config >path: <config-accesslist># ---entry -I/O xxx -P/D xxx -proto xxx -srcaddr x.x.x.x add firewall rule -srcmask x.x.x.x-desaddr x.x.x.x -desmask x.x.x.x -portrange xxx -portnum xxx Example:<config-accesslist>#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 neg -portnum 5060 delete firewall rule ---no entry –I/O xxx –index xxx Example :< config-accesslist>#no entry -I/O input -index 1 Show firewall settings ---show [disable] enable input filter ---[no]in-access [disable] enable output filter ---[no]out-access  $\triangleright$ DHCP path: <config-dhcp># add DHCP rule ---entry --name xxx --startip x.x.x.x --endip x.x.x.x -netmask x.x.x.x -qateway x.x.x.x -dnsserver x.x.x.x time xxx Example:<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 192.168.10.18 delete DHCP rule ---no entry --name xxx Example: <config-dhcp>#no entry -name lan2004 Show DHCP settings ---show [disable]enable DNS-relay ---[no]dns-relay  $\triangleright$ dialrule path: <config-dialrule># [disable] enable End with # ---[no]endchar Set end with fix length ---fixlen xxx Disable end with fix length ---no fixlen ---timeout-send xxx Set timeout to send Disable timeout to send ---no timeout-send Add digital map ---entry --prefix xxx --length xxx Example: <config-dialrule>#entry -prefix 010 -length 11 Delete digital map rule ---no entry --prefix xxx Example: <config-dialrule>#no entry -prefix 010 Show current digital map ---show  $\geq$ LAN interface settings <config-interface-fastethernet-lan># path: [disable]enable bridge mode ---[no]bridgemode [disable]enable DHCP service ---[no]dhcp-server [disable]enable NAT ---[no]nat

Show current DHCP rules---dhcpshowShow LAN port IP address---ipshowShow NAT info---natshowChange LAN port IP address---ip -addr x.x.x.x -mask x.x.x.xExample:<config-interface-fastethernet-lan>#ip -addr 192.168.1.10 -mask 255.255.255.0

 $\triangleright$ WAN interface settings path: <config-interface-fastethernet-wan># [disable]enable dhcp client ---[no]dhcp [disable]enable pppoe ---[no]pppoe **Idisablelenable QOS** ---[no]aos Set default gateway IP ---gateway x.x.x.x ---no gateway Clear default gateway IP Set WAN port IP address ---ip –address x.x.x.x -mask x.x.x.x **Example:**<config-interface-fastethernet-wan>#ip 202.112.241.100 –addr -mask 255.255.255.0 You need to reconnect if the WAN port has been changed. Show WAN port settings ---show

MMI Filter path: <config-mmifilter># add filter rule ---entry -start x.x.x.x -end x.x.x.x Example:<config-mmifilter>#entry -start 202.112.20.1 -end 202.112.20.255 Delete filter rule ---no entry -start x.x.x.x Example:<config-mmifilter>#no entry -start 202.112.20.1 Show filter rule ---show [disable]enable MMI filter ---[no]start-filter

 $\triangleright$ NAT settings path: <config-nat># [disable]enable ftp alg ---[no]ftpalg [disable]enable ipsec alg ---[no]ipsecalg [disable]enable pptp alg ---[no]pptpalg Add TCP mapping rule ---tcp-entry -- ip x.x.x.x -- lanport xxx -- wanport xxx Example:<config-nat>#tcp-entry -ip 192.168.1.5 -lanport 1720 -wanport 1000 Delete TCP mapping rule ---no entry -- ip x.x.x.x -- lanport xxx -- wanport xxx Example:<config-nat>#no tcp-entry -ip 192.168.1.5 -lanport 5060 -wanport 1000 Add UDP mapping rule ---udp-entry –ip x.x.x.x –lanport xxx –wanport xxx Delete UDP mapping rule ---no udp-entry -- ip x.x.x.x -- lanport xxx -- wanport xxx Show NAT info ---show

Netservice path: <config-netservice># Set DNS address ----dns -ip x.x.x.x \_domain xxx Example:<config-netservice>#dns -ip 202.112.10.36 \_domain voip.com Set alternate DNS address ----alterdns -ip x.x.x.x \_domain xxx Set hostname ----hostname xxx Set http access port ----http-port xxx Show http access setting ---http-port Set telnet access port ---telnet-port xxx Show telnet access port ---telnet-port Set RTP initial port and quantity ---media-port --startport xxx --number xxxx Example:<config-netservice>#media-port -startport 10000 -number 200 Add route rule ---route –gateway x.x.x.x –addr x.x.x.x –mask x.x.x.x Example: Arcihfone < config-netservice > #route - gateway 202.112.10.1 - addr 202.112.210.1 -mask 255.255.255.0 Delete route rule ---no route –qateway x.x.x.x –addr x.x.x.x –mask x.x.x.x Show route info ---route Show netservice info ---show

Dial-peer settings
 path: <config-pbook>#
 [disable]enable calling through GK and proxy
 Add number-IP bond entry
 Example:<config-pbook>#entry –number 100 –ip 202.112.20.100 –protocol sip

Add number-IP bond and add prefix to the dial number ---entry –number xxx –ip x.x.x.x –protocol xxx \_add xxx Example:<config-pbook>#entry –number 100 –ip 202.112.20.100 –protocol sip \_add 123(dial 100 and will send 123100 according this rule)

Add number-IP bond and replace the destination with another number

---entry –number xxx –ip x.x.x.x –protocol xxx \_all xxx **Example:**<config-pbook>#entry –number 100 –ip 202.112.20.100 –protocol sip \_all 123( user dial 100 and gateway will sent 100 instead)

Add number-IP bond and delete the prefix of the destination number

---entry –number xxx –ip x.x.x.x –protocol xxx \_del xxx **Example:**<config-pbook>#entry –number 1234 –ip 202.112.20.100 –protocol sip \_del 2 (dial 1234 will send 34 instead)

Add number-IP bond and replace the prefix with another number

---entry –number xxx –ip x.x.x.x –protocol xxx \_rep xxx \_length xxx **Example:**<config-pbook>#entry –number 1234 –ip 202.112.20.100 –protocol sip \_rep 567 \_length 2(dial 1234 will send 56734)

Delete dial-peer entry	no entry –number xxx
Show current dial-peer rules	show
Set default voip protocol	default-protocol xxx

Port settings path: <config-port># 或<config-port X># set accecp relay mode ---accept-relay xxx set callerid mode ---callerid xxx disable callerid ---no callerid config call forward ---callforward -conditon xxx -number xxx -ip xxx -port xxx -protocol xxx **Example:**<config-port 0>#callforward -condition busy -number 100 -ip 202.112.10.100 -port 5060 -protocol sip Disable call forward ---no callforward [disable]enable call transfer ---[no]calltransfer [disable]enable call waiting ---[no]callwaiting Set prefer codec ---codec xxx Set DTMF gain ---dtmfvolume xxx Set black list ---in-limit xxx Show black list ---in-limit Set input volume ---input xxx ---out-limit xxx Set outgoing limit list Show outgoing limit list ---out-limit Set output volume ---output xxx [disable]enable outgoing limit ---[no]shutdown out [disable]enable black list ---[no]shutdown in [disable]enable outgoing limit and black list ---[no]shutdown [disable]enable 3-way conference ---[no]threetalk Show port settings ---show  $\triangleright$ **PPPoE** settings path: <config-pppoe># **PPPoE** account settings ---auth --user xxx -password xxx Example:<config-pppoe>#auth -user aaa -password 123456 [disable]enable service settings ---[no]service xxx Show pppoe settings ---show QOS settings  $\geq$ path: <config-gos># [delete]add QoS table entry --- [no]entry -addr x.x.x.x -mask x.x.x.x Example:<config-qos>#entry -addr 202.112.10.1 -mask 255.255.255.0 [disable]enable include QOS table ---[no]include Show QoS settings ---show SIP settings  $\triangleright$ path: <config-sip># [disable]enable registration ---[no] register [disable]enable auto detect server ---[no] detect-server Set sip domain ---default-domain xxx Set DTMF mode ---dtmf-mode xxx Set auto detect interval time ---interval-time xxx ---rfc-version xxx Set RFC edition [disable]enable auto swap server --- [no]swap-server Set sip account ---number-password –number xxx –password xxx Set local SIP signal port --- signalport xxx Set proxy server ---server proxy -ip x.x.x.x \_port xxx \_user xxx password xxx Example:<config-sip-server># proxy ip 210.25.23.22 \_port 5060 \_user aaa \_password 123456 Set register server info ---server register -ip x.x.x.x port xxx –user xxx password xxx Set alter proxy info ---alter-server proxy -- ip x.x.x.x port xxx user xxx password xxx

 Set alter server info
 ---alter-server register −ip x.x.x.x \_port xxx \_user xxx

 \_password xxx
 ---alter-server register −ip x.x.x.x \_port xxx \_user xxx

 [disable]enable stun server
 ---stun [no]enable

 Set stun detecting interval time
 ---stun interval-time xxx

 Set stun server ip and port
 ---stun −ip x.x.x.x −port xxx

 Show current sip info
 ---show

 Vertication
 User management

path:<config-user>#Change user right.---access -user xxx -access xxx**Example:**<config-user>#access -user aaa -access 7Change user password---password -user xxxAdd new user---entry -user xxx -access xxx**Example:**<config-user>#entry -user abc -access 7Delete user entry---no entry -user xxxShow current sip info---show

4.3.3 Debug (Level 0~7) path: <debug># show debug setting [disable]enable debug all modules [disable]enable debug app module [disable]enable debug cdr module [disable]enable debug sip module [disable]enable debug h323 module [disable]enable debug tel module [disable]enable debug tel module

---show ---[no] all xxx ---[no] app xxx ---[no] cdr xxx ---[no] sip xxx ---[no] h323 xxx ---[no] tel xxx ---[no] dsp xxx

4.3.4 download configure to flash usage: #download tftp –ip x.x.x. –file xxx #download ftp –user xxx –password xxx –ip x.x.x.x –file xxx

Example: #download ftp -user abc -password 123 -ip 202.112.20.15 -file AG188.cfg

4.3.5 password usage: #password Enter new password:xxx Confirm new password:xxx

4.3.6 reload usage: #reload Reboot system

basic
 path: <show>#
 show network status
 Example: #<show>#basic

> call
path: <show>#
show current call info
Example: #<show>#call active

capability
 path: <show>#
 show CODEC capability
 Example: #<show>#capability

debugging
 path: <show>#
 show debug info
 Example:#<show>#debugging

dhcp-server
 path: <show>#
 show LAN status and DHCP server info
 Example:#<show># dhcp-server

dial-rule
 path: <show>#
 show digital-map info
 Example:#<show># dial-rule

interface
 path: <show>#
 show LAN info
 Example:#<show>#interface fastethernet lan
 show WAN info
 Example:#<show>#interface fastethernet wan

ip
 path: <show>#
 show arp table info
 Example:#<show>#ip arp

Show DNS server info **Example:**#<show>#ip dns

Show netstate info **Example:**#<show>#ip netstat

Show route info **Example:**#<show>#ip route

Show icmp packets Stat. **Example:**#<show>#ip icmp

Show igmp packets Stat. **Example:**#<show>#ip igmp

Show ip packets Stat. **Example:**#<show>#ip ip

Show RTP packets Stat. **Example:**#<show>#ip rtp

Show TCP packets Stat. **Example:**#<show>#ip tcp

Show UDP packets Stat. **Example:**#<show>#ip udp

memory path: <show># show IP phone memory Example:#<show>#memory nat path: <show># show NAT information Example:#<show>#nat

port path: <show># show caller-ID info Example:#<show>#port callerID

show dsp info Example:#<show>#port dsp

show hotline info **Example:**#<show>#port hotline

show black list info Example:#<show>#port in-limit

show outgoing limit info Example:#<show>#port out-limit

show current phone number **Example:**#<show>#port number

show current port status Example:#<show>#port status

PPPoE path: <show># show PPPoE info Example:#<show># pppoe

 qos path: <show># show QoS table info Example:#<show>#qos

 sip path: <show># show sip info
 Example:#<show>#sip

udptunnel
 path: <show>#
 show UDP tunnel info
 Example:#<show># udptunnel

uptime
 path: <show>#
 show running time
 Example:#<show># uptime

version

 $\geq$ 

path: <show># show IP phone version Example:#<show># version 4.3.8 telnet and logout Usage: #telnet -target -port Login:xxx Password:xxx # #logout 4.3.9 timesettings path: <time># ---manualset --year xxx --month xxx --day xxx --hour xxx --minute xxx --second xxx Example:<time>#manulset -year 2004 -month 10 -day 1 -hour 8 -minitute 30 -second 0 [disable]enable SNTP server ---sntp [no] start Set SNTP IP address ---sntp server x.x.x.x Set SNTP server timeout ---sntp timeout xxx Set timezone (-12~+12) ---sntp zone xxx Show SNTP info ---sntp show Show current time ---print

4.3.10 tracert trace network path info usage: #tracert -host **Example:**#tracert HYPERLINK "<u>http://www.google.com</u>" <u>www.google.com</u>

4.3.11 update IP phone usage: # update ftp –user xxx –password xxx –ip x.x.x.x –file xxx # update ftp –ip x.x.x.x –file xxx **Example:**# update ftp –user abc –password 123 –ip 202.112.20.15 –file AG188.dlf

4.3.12 upload configure file usage: # upload ftp –user xxx –password xxx –ip x.x.x.x –file xxx # upload tftp –ip x.x.x.x –file xxx

## 4.4 Network Diagnosis

There are some telnet commands for checking your network. Now Listing below for your information

Command	Function	Example
ping	Check if the destination is accessible	#ping www.google.com
tracert	Show network path info	#tracert <u>www.google.com</u>
show basic	Show network settings	#show basic
show ip route	Show route table	#show ip route
show ip arp	Show arp table	#show ip arp
show ip netstat	Netstat programe	#show ip netstat
telnet	Telnet to another device	#telnet 192.168.1.2

## 4.5 Restore to factory default

#setdefault clear IP phone settings expect network part #setdefault all clear all settings.

## 5 POST Mode(safe mode)

		Voip Phone System	
		Post Version:2.0	
		Date:Mar 6 2006 10:49:37	
1		Show Mac Address	
2	100000000	FTP Update Image	
3		Clear Configuration	
4		Exit and Reboot	

AT-530 provide safe mode. When there is booting problem because of setting problem or firmware problem. User can restore the factory setting or upgrade to a new firmware to solve this problem.

#### How to enter safe mode?

There will be a schedule bar in the AT-530 booting procedure, press # key within the first 5 seconds, then the phone will go to POST mode. It has a default ip 192.168.10.1 in POST mode. User may change the PC's IP address to 192.168.10.xx and telnet to 192.168.10.1 to access the IP phone in POST mode.

User can accord the guide in post mode to clear the settings or upgrade the firmware.

## 6 FAQ

## 6.1 How many servers may AT-530 register simultaneously?

AT-530 is able to register two SIP servers simultaneously, and redundancy servers. User can configure the dial peer to route calls between these servers. Please refer <u>"How to use the dial rule?"</u> for detail.

## 6.2 Why the settings vanish after reboot?

Please go to Config Manage $\rightarrow$ Save Config to save your setting always.

## 6.3 How to use the dial rule?

AT-530 provide flexible dial rule, with different dial-rule configure, user can easily implement the following function:

----Replace, delete or add prefix of the dial number.

----Make direct IP to IP call

----Place the call to different servers according the prefix.

You can click "Add" to add a new dial rule. Below is the detail setting of the dial-rule:

**Phone Number:** The Number suit for this dial rule, you can the number as full match or prefix match. Full match means that if the number use dials is the completely same as this number, the call will use this dial-rule. Prefix match means that if prefix of the number that the user dials is the same as the prefix, the call will use this dial-rule, to distinguish from the full match case, you need to add "T" after the prefix number in the phone number setting.

Call Mode: support SIP.

**Destination (optional):** call destination, can be IP or domain. Default is 0.0.0, in this case the call will be routed to the Public SIP server. If you set the destination to 255.255.255, then the call will be routed to the private SIP server. Also you can key other address here to make direct IP calls

Port (optional): Configure the port of the destination, default is 5060 in SIP and 1720 for H323

Alias (optional):Set up the Alias. We support four Alias as below. Alias need to co-work with the *Del Length*:

> add:xxx, add prefix to the phone number, can set to reduce the dial length.

> all: xxx, replace the phone number with the xxx, can use as speed dial function.

> del, delete the first N numbers. N is set in the *Del Length* 

> rep:xxx, replace the first N numbers. N is set in the Del Length. For Example: Use wants to place a call 8610-62281493, then you can set the *phone number* in the dial rule as 010T, and set the *Alias* as rep:8610, and set the *Del Length* to 3. Then all calls begin with 010 will be changed to 8610 xxxxxxxx.

**Suffix (optional):**Configure suffix, show no suffix if not set Instance:

#### **Dial-Peer**

Number	Call Mode	Destination	Port	Alias	Suffix	Del length
2Т	sip	255.255.255.255	5060	del	no suffix	1
ЗТ	sip	0.0.0.0	5060	del	no suffix	1
123	sip	0.0.0.0	5060	all:8675583018049	no suffix	0
ОТ	sip	0.0.0.0	5060	rep:86	no suffix	1
179	sip	192.168.1.179	5060	no alias	no suffix	0

Add Delete Modify 2T 🗸

**2T rule**: If the call starts with 2, the first 2 will be deleted, and the rest number will be sent to private SIP server.

**3T rule**: If the call starts with 3, the first 3 will be deleted, and the rest number with be sent to public SIP server.

123 rule: Dial 123 and will send 8675583018049 to your server. Used as speed dial function.

**0T rule**: If the calls is begin with 0, the first 0 will be replace by 86. Means that if you dial 075583018049 and AG-188 will send 8675583018049 to your server.

**179 rule**: when you dial 179, the call with send to 192.168.1.179, suit for LAN application without set up a sip server.

## 6.4 How to use speed dial function?

There are 9 speed dial keys in the AT-320 panel, Usage:

Set speed dial number: press the speed key and enter the speed dial number and then press Menu/OK key to save the setting.

Pick up the handset and press the speed dial key to dial the pre-define number.

## 6.5 How to configure digital map?

Digital Map is based on some rules to judge when user end their dialing and send the number to the server. AT-530 supports following digital map:

----End With "#": Use # as the end of dialing.

----Fixed Length: When the length of the dialing match, the call will be sent.

----Timeout: Specify the timeout of the last dial digit. The call will be sent after timeout ----Prefix + Length: If the Prefix and Length match, the call will be sent.

# 6.6 How to use Call Forward, Call Transfer and 3-way Conference calls?

User may set up the configuration in the Call Service page to use these value add service.

Call Service			
⊙ Off ◯ Busy ◯ No Answer ◯ Always			
3			

#### ➤ Call Forward:

----Forward when busy: select *Busy* in the *Call Forward* Field, and Key in the destination phone number in the *Forward Number*. If some one calls you when you having a call, the caller will be forwarded to the destination number.

----Forward no answer: Select *No Answer* in the *Call Forward* Field, and Key in the destination phone number in the *Forward Number*, fill the time in the *No Answer Time*. If some one calls you and no one answer the caller during the No Answer Time, the call will be forward to the destination number.

----Forward Always: Select *Always* in the *Call Forward* Field, and Key in the destination phone number in the *Forward Number*, then any one call this gateway will be forward to the destination number.

#### ➤ Call Transfer:

Check the *Enable Call Transfer*.

If A is the AT-530 user, and B calls and talking with A through VoIP. A can **press FWD button** to hold the call with B, and then **enter C's number**. B will be transferred to C and can talk with C.

#### ➢ 3-Way Conference Calls

Check Enable Three Way Call

Assume A is the AG-188 user, and B calls and talking with A through VoIP. A can **press FWD button** to hold the call with B, then **enter \*** and then **enter C's number** to talk with C, and then **press FWD button** again to make 3-way conference calls.

		Call Service		
Hotline				
Call Forward	⊙ Off ◯ Busy ◯ No Answer ◯ Always			
	Phone Number Addr	Port 5060		
No Disturb		Ban Outgoing		
🗹 Enable Call Transfer		Enable Call Waiting		
Enable Three Way Call		🗹 Accept Any Call		
Auto Answer		Enable Voice Record		
User-Defined Voice		Incoming Record Playing		
20 No Answer Time(seconds)				
	_			
	Ар	ply		

## 6.7 How to use the record function?

AT-530 provides record function. With this function, user may record three VoIP message and one local message.

#### Active answering machine:

Select **"Enable Voice Record"** to active answering machine, and config **No Answer Time.** If there is an incoming call and no one answer the call. After timeout, AT-530 will auto answer this call and ask the caller to leave message.

Incoming Record Playing: play the message when recording.

User-Defined Voice: Use customizes greeting voice for answering machine.

Notice: AT-530 supports three message maximum, each message can be 90 seconds. Answering will be deactivated if the message numbers is 3.

#### **Record local message:**

User may use local message to leave message to other local users.

Please refer the **Record** button function as below:

Record Function		
Level1	Level2	Description
Received	New	New message info
	Old	Old message info
	Record	Enable/disable answering machine
	Playing	Enable/disable Incoming Record Playing
Local	Play	Play local message
	Rec	Record local message
User define	Switch	Enable/disable customize greeting message
	Play	Play customize greeting message
	Rec	Record customize greeting message

## 6.8 How to use set the IP type via keypad?

In the idle mode, user may us the keypad to set the IP type as the below procedure: Keep pressing the button 1 for changing to static mode. Keep pressing the button 2 for changing to DHCP mode. Keep pressing the button 3 for changing to PPPoE mode.