PA168X H323 Phone Telnet Setup Guide

When PA168X H323 phone is properly installed, you can set each parameter through PC and Telnet commands.

Details please refer to 《PA168X H323 phone Spec and Install》

➢ **Telnet Configuration**

● On the PC choose **Start>Run**, and then type **telnet 192.168.1.100** into **Run** field in popping Run dialog. Or input **telnet 192.168.1.100** in the DOS window. Then the following information will be display.

PA168X V1.60 settings
Password :

Then please type password. With debug is set as 0[disable], if type ordinary password (default one is 1234), after Retun, you will see：

Password : ****
P:\>

If you type super password, then you will see:

Password : ********
P:\>

Above information indicates that IP phone is under setting mode, and then you can set the PA168X IP phone by using the telnet commands.

➢ **PA168X Telnet Commands Explanation**

Command	Function
?	Supply command name and parameters

get	Display basic parameters of the PA168X IP phone
set	Set parameters of the PA168X IP phone
store	Save current settings to designated position
load	Load designated settings to current position
default	Restore to manufactory defaults parameters
exit	Exit from the setting mode without saving the configuration
write	Exit with saving all configurations and restart PA168X

➢ **Command ?**

Syntax description: No optional parameter

Usage: Type command name and parameters following P:\> . Be used as the keyword to supply keyword and parameters of the relevant commands.

Relevant usage: None

Detailed description:

> ?   List help of all commands

For example:

```
P:\>?
set
get             list settings
store x          store current to xth settings
load x           load xth settings to current
default
exit
write            save settings
```

> ## Command **get**

Syntax description: No optional parameter of keywords

Usage: Display basic parameters of the PA168X IP phone

Relevant usage: None

Detailed description:

get   Display basic running parameters of the PA168X IP phone.

Input ordinary password without debug being set as 0[disable], or input

super password with debug set as 0[disable], then following parameters

of IP phone will be displayed:

```
PA168X V1.60 settings
Password: ********
P:\>get
***************Network Settings**************
iptype 0[static]
ip 192.168.1.100        subnetmask 255.255.255.0        router 192.168.1.254
dns 202.106.46.151   dns2 202.96.128.68        mac 00-0d-ea-00-00-03
***************Audio Settings**************
codec1 0[g729]          codec2 6[null]          codec3 6[null]
codec4 6[null]          codec5 6[null]          codec6 6[null]
vad 1[enable]           agc 0[disable]          aec 1[enable]
audioframes 2           6.3k 1[enable]          ilbcpayload 98
jittersize 0            handsetin 7             handsetout 20
ringtype 0[dtmf]        speakerout 20           speakerin 0
***************Dial Plan Settings**************
dialplan 1[enable]      dddcode 10
iddcode 86              iddprefix 00            dddprefix 0
innerline 1[enable]     innerlineprefix 0       callwaiting 1[disable]
fwdnumber 82378009      fwdpoweroff 1[enable]
fwdalways 1[enable]     fwdbusy 1[enable]       fwdnoanswer 1[enable]
answer 30               digitmap 1[enable]
***************Protocol Settings**************
service 1[enable]       registerttl 60
servicetype 0[common]   serviceaddr 203.93.9.57
nattraversal 2[citron]
```

nataddr [empty]   natttl 30

phonenumber 82378808   account [empty]   pin [empty]

rasport 1720   q931port 1720   h245port 1722

rtpport 1722   tos 0   localtype 0[phonenumber]

dtmf 1[h245 string]

***************Other Settings***************

superpassword 12345678   debug 1[output]

password 1234   upgradetype 0[disable]

upgradeaddr [empty]

sntpip 0.0.0.0   daylight 0[disable]

timezone 55[(GMT+08:00)Beijing,Hong Kong,Urumqi]

Input ordinary password with debug set as 0[disable], following information will

be seen:

PA168X V1.60 settings

Password:****

P:\>get

***************Network Settings***************

iptype 0[static]

ip 192.168.1.100   subnetmask 255.255.255.0   router 192.168.1.254

dns 202.106.46.151   dns2 202.96.128.68   mac 00-0d-ea-00-00-03

***************Audio Settings***************

codec1 0[g729]   codec2 6[null]   codec3 6[null]

codec4 6[null]   codec5 6[null]   codec6 6[null]

vad 1[enable]   agc 0[disable]   aec 1[enable]

audioframes 2   6.3k 1[enable]   ilbcpayload 98

jittersize 0   handsetin 7   handsetout 20

ringtype 0[dtmf]   speakerout 20   speakerin 0

***************Dial Plan Settings***************

dialplan 1[enable]   dddcode 10

iddcode 86   iddprefix 00   dddprefix 0

innerline 1[enable]   innerlineprefix 0   callwaiting 1[disable]

fwdnumber 82378009   fwdpoweroff 1[enable]

fwdalways 1[enable]   fwdbusy 1[enable]   fwdnoanswer 1[enable]

answer 30

digitmap 1[enable]

***************Other Settings***************

password 1234   upgradetype 0[disable]

upgradeaddr [empty]

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sntpip 0.0.0.0   daylight 0[disable]

timezone 55[(GMT+08:00)Beijing,Hong Kong,Urumqi]

➢ **Command set**

Syntax description: set keywords value

Usage: Used to configure password and other running parameters of

PA168X IP phone.

Detailed description:

set iptype X

Set how IP phone gets relevant network parameters. X ranged

from 0 through 3: 0: authorize users set IP address, subnet mask

and router IP address of IP phone manually; 1: use DHCP mode.

With this system, your LAN or router automatically assigns all the

required network parameters to any device connected to it when

the device log on. PA168X IP phone is shipped from the factory

with DHCP on. So, if your LAN or router is configured to use

DHCP addressing, the IP phone's LAN parameters will

automatically be configured as soon as it is connected to the LAN

or router and powered up; 2: use PPPoE mode. Those ADSL and

Cable Modem users please select this item for it is a protocol

especially designed for them. With this system, ADSL ISP

automatically assigns all the required IP parameters to any device

connected to it when the device log on; 3: use modem mode. Those who use IP phone with modem, please set the value as 3.

set pppid XXX

With **iptype** set as **2**, use this command to set ADSL ID; with **iptype** set as **3**, use this command to set Modem ID.

set ppppin XXX

With **iptype** set as **2**, use this command to set ADSL pin; with **iptype** set as **3**, use this command to set Modem pin.

set ip XXX.XXX.XXX.XXX

With **iptype** set as **0**, use this command to set IP address of PA168X IP phone.

set subnetmask XXX.XXX.XXX.XXX

With **iptype** set as **0**, use this command to set subnet mask of PA168X IP phone.

set router XXX.XXX.XXX.XXX

With **iptype** set as **0**, use this command to set router IP of network with PA168X IP phone.

set dns XXX.XXX.XXX.XXX

With **iptype** set as **0**, use this command to set IP address of DNS server.

set dns2 XXX.XXX.XXX.XXX

With **iptype** set as **0**, use this command to set IP of backup DNS

server.

set mac XX-XX-XX-XX-XX-XX

Set MAC address of the PA168X IP phone. Parameter xx-xx-xx-xx-xx-xx must be an HEX number.

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set codec1 X

Set the priority 1of the audio compression algorithm. X is range from 0 through 6: 0: g729; 1:g723.1; 2: g711u; 3: g711a; 4: gsm; 5: ilbc; 6: null.

set codec2 X

Set the priority 2 of the audio compression algorithm. X is range from 0 through 6: 0: g729; 1:g723.1; 2: g711u; 3: g711a; 4: gsm; 5: ilbc; 6: null.

set codec3 X

Set the priority 3 of the audio compression algorithm. X is range from 0 through 6: 0: g729; 1:g723.1; 2: g711u; 3: g711a; 4: gsm; 5: ilbc; 6: null.

set codec4 X

Set the priority 4 of the audio compression algorithm. X is range from 0 through 6: 0: g729; 1:g723.1; 2: g711u; 3: g711a; 4: gsm; 5: ilbc; 6: null.

set codec5 X

Set the priority 5 of the audio compression algorithm. X is range from 0 through 6: 0: g729; 1:g723.1; 2: g711u; 3: g711a; 4: gsm; 5: ilbc; 6: null.

set codec6 X

Set the priority 6 of the audio compression algorithm. X is range from 0 through 6: 0: g729; 1:g723.1; 2: g711u; 3: g711a; 4: gsm; 5: ilbc; 6: null.

set vad X

Enable/disable VAD. X is ranged from 0 through 1: 0: disable VAD; 1: enable VAD.

set agc X

Enable/disable AGC. X is ranged from 0 through 1: 0: disable AGC; 1: enable AGC.

set aec X

Enable/disable AEC. X is ranged from 0 through 1: 0: disable AEC; 1: disable AEC.

set audioframes X

Set audio frames in RTP package. X is Arabic numerals between 0 and 7.

set 6.3k X

With G.7231, set PA168X IP phone to use 6.3K rate or not. X is ranged from 0 through 1: 0: use 6.3K rate; 1: use 5.3K rate.

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set jittersize X

Set buffer size of RTP package. X is range from 0-32.

set ilbcpayload X

Set the payload type of RTP package whne ILBC codec selected to DTMF delay.X is range from 96-255.

set handsetin X

Set initial volume of handset. X is ranged from 0 through 15.

set handsetout X

Set initial volume of handout. X is ranged from 0 through 31.

set ringtype X

Set types of ring. X is ranged from 0 through 3: 0: ring as ordinary rings in different frequency; 1: do not ring; 2: ring as music saved by user; 3: Set ring used the individualized tone provided by system (need system support).

set speakerin X

Set initial volume of microphone of the base. X is ranged from 0 through 15.

set speakerout X

Set initial volume of speaker out. X is ranged from 0 through 31.

---

set dialplan X

Enable/disable dial plan and dial number. Parameter X ranged

from 0 through 4: 0: disable dial plan; 1: enable dial plan; 2: use

dial number; 3: use 179XX service.;4: use hotline function.

set dialnumber XX

When **set dialplan** value set as 2, please use this command to set

dial number. For example, with eTalk card used, please set it as

00. When **set dialplan** value set as 4, please use this command to

set **hotline number.**

set dddcode XX

Set the area code when set **dialplan** value set as **1** or **2**. For

example, the area code of Beijing is 10; the area code of Shanghai

is 21, and the area code of Chengdu is 28, etc. Parameter xxx

must be an Arabic numeral and no longer than 3 characters.

set iddcode XXX

Set the country code when set **dialplan** value set as **1** or **2**. For

example, the country code of China is 86; the country code of USA

is 1, etc. Parameter xxxx must be an Arabic numeral and no longer

than 4 characters.

set iddprefix XX

Set IDD service prefix number when set **dialplan** value set as **1** or

2. For example, IDD service prefix number of china is 00; IDD

service prefix number of USA is 1, etc. Parameter xxx must be an

Arabic numeral and no longer than 3 characters.

set dddprefix XX

Set DDD service prefix number when set **dialplan** value set as **1** or **2**. For example, DDD service prefix number of china is 0; DDD service prefix number of USA is 1, etc. Parameter xxx must be an Arabic numeral and no longer than 3 characters.

set innerline X

Set use innerline call or not. X ranged from 0 through 1: 0: disable; 1: enable innerline call.

set innerlinepreifx X

With **innerline** set as **1[enable]** , please set the prefix to pick up inner line, such as 0.

set callwait X

Set whether to use call wait. X ranged from 0 to 1: 0: do not use call wait; 1: use call wait.

set fwdnumber XXXXXXX

Set receiving forwarded calls phone number. XXXX must be an Arabic numeral and no longer than 16 characters

set fwdpoweroff X

Enable/disable forward calls if power off. X is ranged from 0 through 1. 0: do not forward calls if power off; 1: forward call if power off.

set fwdalways X

Enable/disable forward all calls. X is ranged from 0 through 1. 0: do not forward all calls; 1: forward all calls.

set fwdbusy X

Enable/disable forward calls if busy. X is ranged from 0 through 1. 0: do not forward calls if busy; 1: forward call if busy.

set fwdnoanswer X

Enable/disable forward calls without replying. X is ranged from 0 through 1. 0: do not forward calls without replying; 1: forward call without replying.

set answer X

Set the ring seconds before the phone answers the call auto or forward the calls. X is ranged from 0 through 60.

set digitmap X

Set whether to use digitmap. X ranged from 0 to 1: 0: do not use digitmap; 1: use digitmap.

set service X

Set register the gatekeeper or not. X ranged from 0 through 1. 0: do not register; 1: register.

set registerttl X

Set register TTL. X is range from 10 through 65535 Sec. default value is 60 Sec.

set service type X

Enable/disable the prepaid and service system .choose the repaid

server provider or system. Parameter x ranged from 0 through 22:

0: common: disable repaid card;

1: use huawei's system;

2: use ZTE's system;

3: use harbour's system;

4: use utstarcom's system;

5: use soyo's system;

6: use etalk's service;

7: use dda service;

8: use vida service;

9: use Smartcon's service;

10: use avtech's system;

11: use Ringtec's system;

12: use citron's system;

13: use asiasoft's system;

14: use txtc's system;

15: use i-fon's system;

16: use suntek's system;

17: use asiainfo's system;

18: use Lucent's system;

19: use IPN's service;

20: use yayuang's system;

21: use thinker's system;

22: use vfon's system;

set serviceaddr XXXX

Set IP address or domain name of gatekeeper.

set nattraversal X

Set NAT traversal or not. X ranged from 0 through 6: 0: do not use. When the log in server and IP phone in the same LAN, or the log in system supports the IP phone working behind the LAN; 1: Use NAT traversal. When the login system does not support IP phone working behind the LAN, please use this value to search public IP address of the NAT device. With this item selected, please make port mapping on NAT device; 2: With Citron private protocol used, use this value to fit into the GnuGK system transferring the voice and signal by router; 3: use this value with Innopath private system used; 4: use this value with vida private system used; 5: aivgr use this value with aivgr private system used; 6: use this value with Eproxy private system used.

set nataddr XXXXX

Set IP address of NAT device wan port or URI of free assistant service (Such as www.showmyip.com etc.) in Internet.

✎**NOTE** The free service list of Internet：www.ip-calculator.com; www.ipchicken.com; www.ipchicken.com;www.showmyip.com;www.whatismyip.com; www.myipaddress.com; www.whatismyipaddress.com; ip.sbbs.net; www.whatismyipaddress.net;checkip.dyndns.org

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set natttl XX

Set NAT TTL XX is an integer between 10 and 65535 sec. default value is 20 sec.

set phonenumber XXXXXXXX

Set a phone number of PA168X IP phone. Value xxxxx must be an Arabic numeral and no longer than 16 characters.

set account XXXXXX

While calling card is set, set account of chosen card; while **local type** is set use authentication type, set user ID; while **set localtype** is set as 1, set H323 ID.

set pin XXXXXXXXXX

While calling card is set, set password of chosen card; while **local type** is set authentication type, set password.

set rasport XXXX

Set register port. XXXX is range from 1024 through 65535.

set q.931port XXXX

Set signal port. XXXX is range from 1024 through 65535.

set h245port XXXX

Set control port. XXXX is range from 1024 through 65535.

set rtpport XXXX

RTP port is the port transferring and receiving voice flow using UDP protocol. XXXX is an even number between 1024 and 65535.

set tos X

Set TOS segment of IP head package in RTP digital follow. X is range from 0 through 224.

set localtype X

This command used to set how IP phone log in gatekeeper. X is ranged from 0 through 6: 0: use phone number as E.164 and H323 ID to login the GK; 1: use phone number as E.164 and designated H323 ID by set **account XXX** command; 2:use support automated negotiate about MD5 or CAT authentication system.3:use MD5 authentication account and pin;4: use CAT authentication account and pin; 5: use SHA1 authentication account and pin.

set dtmf X

Set DTMF relay type. X is ranged form 0 through 2: 0: inband audio；1: H245 string；2: Q931 keypad.

set superpassword XXXX

Set super password of the PA168X IP phone. XXX must be ASCII characters.

set debug X

Set open debugging message output grade for special tool. X is ranged from 0 through 5: 0: close debugging output; 1: output the operation information to the window; 2: output all the bug information and data in test window; 3: save the bug information into SDRAM; 4: disable checks the mark.

set password XXXX

Set password of the PA168X IP phone. XXX must be ASCII characters.

set upgradetype X

Set auto-upgrade matching type，X is range from 0 through 5，

0------disable；1------all ；2------ mac；3------ppp id; 4------ account;

5------ phone number。

set upgradeaddr HTTP://XXX.XXX.XXX.XXX:Port
                              FTP://XXX.XXX.XXX.XXX: Port
                              TFTP://XXX.XXX.XXX.XXX: Port

Set IP address or domain name of upgrade server supplying upgraded program and configurations of PA168X IP phone.

set sntpip XXX.XXX.XXX.XXX

Set IP address of timeserver.

set daylight X

Set use daylight or not. X ranged from 0 through 1: 0: do not use daylight; 1: use daylight.

set timezone XX

Set time zone.

➢ **Command store**

Syntax description: no keyword. Parameter ranged from 0 through 4.

Usage: Save the current settings to the designated position.

Relevant Usage: store 1

➢ **Command load**

Syntax description: no keyword and parameter

Usage: Load the designated settings to the current position.

Relevant usage: load 1

➢ **Command default**

Syntax description: no keyword and parameter

Usage: Restore to manufactory defaults parameters.

Relevant usage: None

➢ **Command exit**

Syntax description: no keyword and parameter

Usage: Exit from Telnet command window without saving the configuration.

Relevant usage: None

➢ **Command write**

      Syntax description: No keyword and parameter

      Usage: Save the configuration and restart the PA168X IP phone.

      Relevant usage: None

Note All the Telnet commands of PA168X IP phone should be written in low case and the password is case sensitive.

Reserves the right to make changes in technical and product specification

without prior notice.

PA168X H323 Phone Telnet Setup Guide (V1.60)

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