

PA168V H323 FXS Gateway

Telnet Setup Guide

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When PA168V H323 FXS gateway is properly installed, you can set each parameter through PC and Telnet commands.

Details please refer to 《PA168V H323 FXS gateway Spec and Install》

➤ Telnet Configuration

- On the PC choose **Start>Run**, 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 displayed.

```
PA168X V1.60 settings
Password :
```

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

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

If you type super password, then you will see:

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

The above information indicates that PA168V FXS gateway is under setting mode, and then you can set the PA168V FXS gateway by using the telnet commands.

➤ PA168V Telnet Commands Explanation

Command	Function
---------	----------

?	Supply command name and parameters
get	Display basic parameters of the PA168V FXS gateway
set	Set parameters of the PA168V FXS gateway
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 PA168V

➤ **Command ?**

Syntax description: No optional parameter

Usage: Type command name and parameters by 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 or keywords

Usage: Display basic parameters of the PA168V FXS gateway

Relevant usage: None

Detailed description:

get Display basic running parameters of the PA168V FXS gateway. Input ordinary password without debug being set as 0[disable], or input super password with debug set as 0[disable], then following parameters of PA168V FXS gateway 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 3[g711a]      codec3 2[g711u]
codec4 4[gsm]      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 15      handsetout 20
dualmode 1[pstn first]  dualmodeprefix 30
*****Dial Plan Settings*****
dialplan 1[enable]  dddcode 10
iddcode 86      iddprefix 00      dddprefix 0
innerline 1[enable]  innerlineprefix 0      callwaiting 1[enable]
fwdnumber 95963      fwdpoweroff 0[disable]
fwdalways 1[enable]  fwdbusy 0[disable]      fwdnoanswer 0[disable]
digitmap 0[disable]
*****Protocol Settings*****
service 1[enable]  registerttl 60
servicetype 0[common]  serviceaddr 203.93.9.57
natTraversal 1[enable]

```

```

nataddr [www.showmyip.com]          natttl 0
phonenummer 82378801      account [empty]          pin [empty]
rasport 1732              q931port 1732          h245port 1734
rtpport 1734             tos 0
localtype 0[phonenummer]    dtmf 0[inband audio]
*****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], and the 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 3[g711a]          codec3 2[g711u]
codec4 4[gsm]          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 15            handsetout 20
dualmode 1[pstn first] dualmodeprefix 30
*****Dial Plan Settings*****
dialplan 1[enable]    dddcode 10
iddcode 86           iddprefix 00            dddprefix 0
innerline 1[enable]  innerlineprefix 0       callwaiting 1[enable]
fwdnumber 95963      fwdpoweroff 0[disable]
fwdalways 1[enable]  fwdbusy 0[disable]     fwdnoanswer 0[disable]
digitmap 0[disable]
*****Other Settings*****
password 1234          upgradetype 0[disable]
upgradeaddr [empty]
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: It is to configure password and other running parameters of PA168V FXS gateway.

Detailed description:

set iptype X

Set how PA168V FXS gateway gets relevant network parameters.

X ranges from 0 through 3. 0: authorize users to set IP address, subnet mask and router IP address of PA168V manually; 1: use DHCP mode. With this system, 2: use PPPoE mode. Those ADSL and Cable Modem users please select this item. 3: use modem mode. Those who use PA168V with modem please set the value as 3.

set pppid XXX

With **iptype** set as **2**, use this command to set user name of PPPoE; with **iptype** set as **3**, use this command to set user name of dial-up network.

set ppppin XXX

With **iptype** set as **2**, use this command to set user name of PPPoE; with **iptype** set as **3**, use this command to set user name

of dial-up network.

set ip XXX.XXX.XXX.XXX

With **iptype** set as **0**, use this command to set IP address of PA168V FXS gateway.

set subnetmask XXX.XXX.XXX.XXX

With **iptype** set as **0**, use this command to set subnet mask of PA168V FXS gateway.

set router XXX.XXX.XXX.XXX

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

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 PA168V FXS gateway. Parameter xx-xx-xx-xx-xx-xx must be an HEX number.

set codec1 X

Set the priority 1of the audio compression algorithm. X ranges

from 0 through 6: 0: g729; 1:g7231; 2: g711u; 3: g711a; 4: gsm; 5: ilbc; 6: null.

set codec2 X

Set the priority 2 of the audio compression algorithm. X ranges from 0 through 6: 0: g729; 1:g7231; 2: g711u; 3: g711a; 4: gsm; 5: ilbc; 6: null.

set codec3 X

Set the priority 3 of the audio compression algorithm. X ranges from 0 through 6: 0: g729; 1:g7231; 2: g711u; 3: g711a; 4: gsm; 5: ilbc; 6: null.

set codec4 X

Set the priority 4 of the audio compression algorithm. X ranges from 0 through 6: 0: g729; 1:g7231; 2: g711u; 3: g711a; 4: gsm; 5: ilbc; 6: null.

set codec5 X

Set the priority 5 of the audio compression algorithm. X ranges from 0 through 6: 0: g729; 1:g7231; 2: g711u; 3: g711a; 4: gsm; 5: ilbc; 6: null.

set codec6 X

Set the priority 6 of the audio compression algorithm. X ranges from 0 through 6: 0: g729; 1:g7231; 2: g711u; 3: g711a; 4: gsm; 5: ilbc; 6: null.

set vad X

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

set agc X

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

set aec X

Enable/disable AEC. X ranges 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 codec selected; set PA168V FXS gateway to use 6.3K rate or not. X ranges from 0 through 1: 0: use 6.3K rate; 1: use 5.3K rate.

set jittersize X

Set buffer size of RTP package. X ranges from 0 to 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 ranges from 0 through 15.

set handsetout X

Set initial volume of handout. X ranges from 0 through 31.

set dualmode X

Set to enable or disable the PSTN line. X ranges from 0 through 2.

0: do not use PSTN line; 1: use PSTN line first. 1: use IP side call first.

set dual modes prefix XX

When IP first is set in the dual modes setting, setting switches to PSTN prefix; XX ranges from 0 through 99.

set dialplan X

Enable/disable dial plan and dial number. Parameter X ranges 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 ranges 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 ranges 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 ranges from 0 through 1. 0: do not forward any call; 1: forward all calls.

set fwdbusy X

Enable/disable forward calls if busy. X ranges 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 ranges 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 automatically or forward the calls. X is ranges from 0 through 60.

set digitmap X

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

set service X

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

set registerttl X

Set to register TTL. X ranges 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 ranges 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 ranges from 0 through 6: 0: do not use;

1: Use NAT traversal. With this item selected, please make port mapping on NAT device; 2: With Citron private protocol used; 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

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 PA168V FXS gateway. Value xxxxx must be an Arabic numeral and no longer than 16 characters.

set account XXXXXX

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

set pin XXXXXXXXXXX

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

set rasport XXXX

Set register port. XXXX ranges from 1024 through 65535.

set q.931port XXXX

Set signal port. XXXX ranges from 1024 through 65535.

set h245port XXXX

Set control port. XXXX ranges from 1024 through 65535.

set rtpport XXXX

RTP port is the port transferring and receiving voice flow by 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 ranges from 0 through 224.

set localtype X

This command is to set how PA168V FXS gateway logs in gatekeeper. X ranges 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 setting **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 ranges from 0 through 2: 0: inband audio;
1: H245 string; 2: Q931 keypad.

set superpassword XXXX

Set super password of the PA168V FXS gateway. XXXX must be
ASCII characters.

set debug X

Set open debugging message output grade for special tool. X
ranges 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 checking the mark.

set password XXXX

Set password of the PA168V FXS gateway. XXXX must be ASCII
characters.

set upgradetype X

Set auto-upgrade matching type, X ranges 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 time server.

set daylight X

Set to use daylight or not. X ranges 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 ranges 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 PA168V FXS gateway.

Relevant usage: None

 **Note** All the Telnet commands of PA168V FXS gateway should be written in low case and the password is case sensitive.

*Reserves the right to make changes in technical and product specification
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