

PA168V MGCP FXS Gateway

Telnet Setup Guide

➤ <i>Telnet Configuration</i>	2
➤ <i>PA168V Telnet Commands Explanation</i>	2
➤ <i>Command ?</i>	3
➤ <i>Command get</i>	4
➤ <i>Command set</i>	5
➤ <i>Command store</i>	14
➤ <i>Command load</i>	14
➤ <i>Command default</i>	14
➤ <i>Command exit</i>	15
➤ <i>Command write</i>	15

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

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

➤ **Telnet Configuration**

- On the PC choose **Start>Run**, type **telnet 192.168.1.100** into **Run** field in popuing 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 Retun, 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
*****Protocol Settings*****
servicetype 0[common ]
caaddr 203.93.9.57      registerttl 60
natTraversal 1[enable]
nataddr [empty]      natttl 0
phonenum 82378801      endpointid [empty]      domain [empty]
registerport 1732      rtpport 1734           tos 0
dtmfpayload 101      localtype 0[normal]    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
*****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 1 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 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: enable 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 when 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. 2: 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 service type X

Enable/disable the prepaid and service system .choose the repaid server provider. Parameter x ranged from 0 through 6:

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 uptech system;

6: use kaiman system;

set caaddr XXXX

Set IP address or domain name of Call Agent.

set registerttl X

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


set nattraversal X

X ranged from 0 through 1: 0: do not use NAT traversal. 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, With this item selected, please make port mapping on NAT device

set nataddr XXXXX

When “**nattraversal**” is set to “1”; 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 local ID of PA168X IP phone. Value xxxxxx must be an Arabic numeral and no longer than 16 characters.

set endpointid XXXXXX

Set the endpoint id; Value xxxxxx must be an Arabic numeral and no longer than 32 characters.

set domain XXXXXXXXXX

Set the domain name; Value xxxxxx must be an Arabic numeral and no longer than 32 characters.

set registerport XXXX

Set register port. XXXX is range from 1024 through 65535. default value is 2427.

set rtpport XXXX

RTP port is the port transferring and receiving voice flow using UDP protocol. XXXX is range from 1024 through 65535.

set tos X

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

set dtmf payload X

When dtmf X select 1(rfc 2833).This parameter can be used indicating type of RTP payload type. The value can be use integer 96-101.

set localtype X

X is set 0 to 1:0: normal; 1: use CNC special authentication system.

set dtmf X

Set DTMF relay type. X is ranged form 0 through 1: 0:inband audio; 1:rfc 2833.

set superpassword XXXX

Set super password of the PA168V FXS gateway. XXX 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. XXX 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. Parameter ranges from 0 through 4.

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.

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