

How to register your ATAs to IPX-2000/1800 IP PBX system (Auto-config)

In the following sample, we'll introduce how to integrate the ATA with our IP PBX system IPX-2000 via Auto-config feature.



- ATA A IP Address: 192.168.0.1
Line Number: 1001

- ATA B IP Address: 192.168.0.2
Line Number: 2002

Device configurations on the IPX-2000:

STEP 1:

Log in IPX-2000 and browse to the **Srvice → DHCP Service** menu and create new options list for the auto configuration.

:: DHCP SERVICE

DHCP POOL
lan

Enable Disable
 On-board LAN lan **APPLY**

Show Leased Clients
SHOW CLIENTS

Range Single-host
 Pool Name: lan
 IP: 192.168.1.101 ~ 192.168.1.200
 Options: 150,192.168.1.1 **DEL**
 Code,Value: 151, http://192.168.0.50/tpboot/ **ADD**
ADD **UPDATE** **DEL** **CLEAR**

Code: please insert **151** as the DHCP server option.

Value: http://LAN IP for IPX-2000/tftpboot/

An example option 151 would be option=**151** value= **http://192.168.0.50/tftpboot/**

STEP 2:

Please browse to the **Device → IP Phone** menu and create new device. And press the **EDIT** button for set up the Auto Config configuration.

:: DEVICE PHONE MANAGEMENT

Device ID		Device Administration URL			
<input type="text"/>		<input type="text"/>		<input type="button" value="ADD"/>	
<input type="button" value="DEL"/>					
Device ID	Associated Extension	Device Administration URL	Auto Client Conf		
<input type="checkbox"/> auto_dev_vip156		<input type="text"/> <input type="button" value="LINK"/>	Disabled	<input type="button" value="EDIT"/>	<input type="button" value="APPLY"/>
<input type="checkbox"/> auto_dev_vip157		<input type="text"/> <input type="button" value="LINK"/>	Disabled	<input type="button" value="EDIT"/>	<input type="button" value="APPLY"/>

STEP 3:

Please fill out the Vendor Prefix code and MAC Address of ATA.

Enable Automatic Client Configuration

Device: auto_dev_vip156

Vendor Prefix: pl156 (a-zA-Z0-9_)

MAC Address: 00 . 30 . 4f . aa . bb . dd

Supplementary Configuration

Codec Preference

1st codec: g711ulaw

1st packet time: 20

2nd codec: g711alaw

2nd packet time: 20

3rd codec: g729

3rd packet time: 30

Enable Voice Activity Detection (VAD)

DTMF Mode: Inband



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Note:

The following are the Vendor Prefix of devices:

1. VIP-156: **pla156**
2. VIP-157/VIP-157S: **pla157**

STEP 4:

Please browse to the **Device → Extension of IP Phone** menu to create the two extension accounts/password: **1001/123** (for ATA A), and **1002/123**(for ATA B) for the voice calls.

:: EXTENSION MANAGEMENT

Extension Number	1001
Associated Device	auto_dev_vip156
Password	•••
User	admin(admin)
Pickup Group	UG_DEF
Line Type	Wired
Language	English
Voicemail	Enable
Voicemail PIN	•••
Unavailable Timeout	10 sec.
<input type="checkbox"/> Allow LAN Use Only	
Try Peer-to-peer RTP	NO
DTMF Mode	inband

ADD BACK

STEP 5:

After setting up the parameters, please browse to the **Service → IP PBX service** menu, and press **RELOAD** of IP PBX configuration reload selection for activating the settings.

:: IP PBX SERVICE

Service & Configuration Advance

IP PBX will reload configuration as soon as possible.
Currently active calls will be disconnected in 3 minutes.
Do you really want to Continue?

IP PBX Configuration Reload **RELOAD**

IP PBX Configuration Backup **BACKUP** PBX Settings Only

IP PBX Configuration Restore **RESTORE**

Device configurations on the ATA:

STEP 6:

Please log in ATA via web browser, browse to the **SIP setting** menu and select the **Domain Service** config menu. In the setting page, please browse to the Auto-config page, and enable the Auto Configuration features for IP PBX system.

Auto Configuration Settings

You could enable/disable the auto configuration setting in this page.

Auto Configuration: Off TFTP FTP HTTP IP-PBX

TFTP Server:	<input type="text"/>	
HTTP Server:	<input type="text"/>	Exp. 60.35.187.30
HTTP File Path:	<input type="text"/>	Exp. /download/
FTP Server:	<input type="text"/>	Exp. 60.35.17.1
FTP Username:	<input type="text"/>	
FTP Password:	<input type="text"/>	
FTP File Path:	<input type="text"/>	Exp. /file/load

STEP 7:

After enabling the auto-config feature, the ATA shall be able to obtain IP address and SIP extension information from IP PBX system IPX-2000 information. To verify the auto-config results, you may connect telephone set to ATA; press **#120#** to check if the IP address is obtained from IPX-2000. And **#122#** can be used to verify the extension number assigned by IPX-2000.

STEP 8:

Repeat the same configuration steps on ATA B, and check if the ATA B is successfully registered with the IPX-2000 as one of the IP extensions.

Test the scenario:

1. Pick up the telephone on ATA A
2. Press the keypad: **2002** shall be able to connect to the ATA B
3. Then the telephone set in ATA B should ring. Please repeat the same dialing steps on ATA B to establish the first voice communication from ATA A



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