

## Internet Telephony PBX System

**IPX-600** 

IP PBX with Gateway Restricted PSTN Calls Configuration









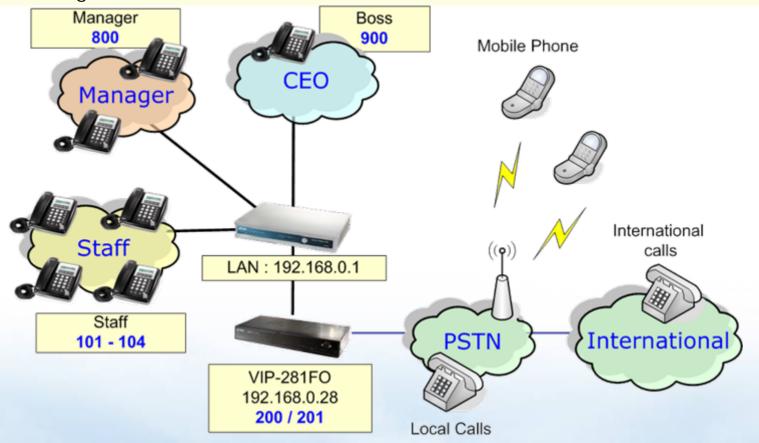
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## Scenarios explain: SIP Proxy Mode

We're using the IPX-600 and VIP-281FO to perform the restricted at the different grades users to limit their of PSTN outgoing calls.

Please refer to the following descriptions and insert proper parameters configurations into the each device for establish the voice communications.

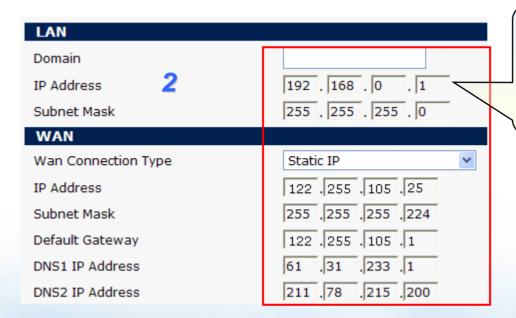




#### **Status**

Network Setup-DHCP Server IP PBX NAT Advanced Log Management

Click the [Network Setup] to set up the WAN and LAN interface for the IP PBX, If the IP PBXs not under the NAT, disable the STUN server.



Setup the WAN and LAN interface of IPX-600 follow the information of IP that provides by ISP





IP PBX
System
Proxy Server
Gateway
Call Route <
Plools Liet

Select the [IP PBX->Users Mgmt.] of IP PBX and click Add User button or Batch Add button to create user account.

Users Mqmt.
Call Status
Hunt Group
Call/Pickup Group
CDR
Auto Attendant

Upload Voice File

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First Number: 100 Number of users : 5

Password: 100

**Check Auto-increase** 

GoTo VM after Ringing: 30

(As you requirement to create users counts.)

User Attributes	Values
First Number	100
Number of Users	5 users 4
Password	100 Auto-increase
Call Group	1 2 3 4 5 6 7 8 9 10 15 16 17 18 19 20
Pickup Grou	1 2 3 4 5 6 7 8 9 10 15 16 17 18 19 20
Bo	Default 💌
rd Immediate	⊙ Disable ○ Internal 10
arward on Busy	⊙ Disable ○ Internal 10
all Forward on No Answer	⊙ Disable ○ Internal 10
MAC Address	00 : 00 : 00 : 00 : 00
APS	NO V
T.38 Fax Relay	NO 💌
Do Not Disturb	✓ Forward to VM
VM to E-mail	E-mail  Delete VM after Send Attachment via E-mail
Goto VM after Ringing	30 seconds (10~60)





✓ DHCP Only for IP Phones: Total: 9 Users, Registered: 0 Users.													
ndex		Call Status	Disp. Name		Call Group	Pickup Group	Hunt Group	Route Group	Call Type	IP:Port	APS	VMWI (new/old)	Action
001		<b>②</b>	100	100	1	1	-	Staff	-	-	N	0/0	Edit
002		<b>②</b>	101	101	1	1	-	Staff	-	-	N	0/0	Edit
003		<b>②</b>	102	102	1	1	-	Staff	-	-	N	0/0	Edit
004		<b>②</b>	103	103	1	1	-	Staff	-	-	N	0/0	Edit
005		<b>②</b>	104	104	1	1	-	Staff	-	-	N	0/0	Edit
006		<b>②</b>	200	200		5	-	Gateway	-	-	N	0/0	Edit
007		<b>②</b>	201	201			-	Gateway	-	-	N	0/0	Edit
800		<b>②</b>	800	800	8	1,8	-	Manager	-	-	N	0/0	Edit
009		<b>②</b>	900	900	9	1,8,9	-	Boss	-	-	N	0/0	Edit
							1						

Click the [Apply] button to reload the IP PBX User Management configuration.



button to





System Proxy Serv Select the [IP PBX->Gateway] of IP PBX and click add gateway for the IP PBX.

Gateway

Call Route

Block List

Users Mgmt.

Call Status

Route Group

Hunt Group

	Edit Gateway		
	<b>Entry Attributes</b>		Values
	Name	PSTN	
l	Gateway IP	192.168.0.28	
l	Gateway Port	5060 (1~65535)	
	Manber of Analog Ports	<sup>2</sup> 7	
l	Gateway Location	LAN 💌	
ſ	Apply Cance	ı	

Please fill in that gateway

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information

Name: PSTN

Gateway IP: 192.168.0.28

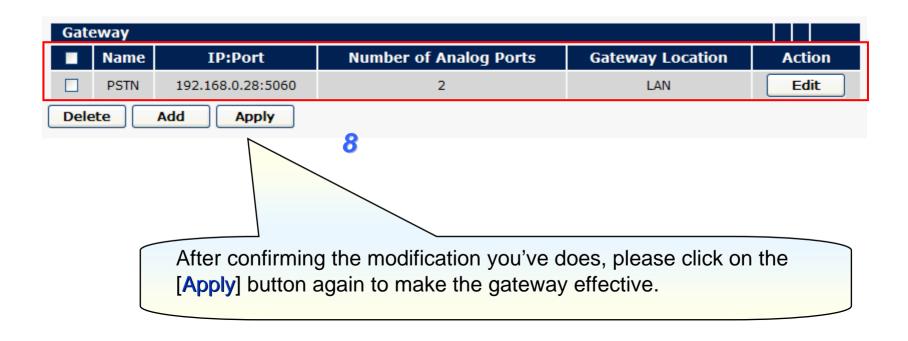
Gateway port: 5060

Number of Analog Ports: 2

Gateway Location: LAN

After confirming the modification you've does, please click on the [Apply] button to add the gateway.





### **NOTE**:

Please repeat the same previous step to create for above indicate gateway list.



button to



#### IP PBX

System Proxy Server Gateway

Call Route

Block List

Users Mgmt.

Call Status

Hunt Group

Call/Pickup Group

8

CDR

Auto Attendant

Upload Voice File

Select [IP PBX->Call Route] of IP PBX to and click add Call Route for the IP PBX.

Create a Call Route: PSTN\_0922

Pattern: 80922. (The '.' is represent the unlimited length of wildcards.)

Primary / Backup Route via: PSTN

**Drop Digits: 1** 

Prefix: 2

(The first few digit of the dialer number will be removed and to exchange for prefix number after going out the device when the dialed number matches pattern.)

Edit Call Route (Dial Plan)							
Route Attributes	Values	5					
Name	PSTN_0922						
Pattern	80922.	10					
Primary Route via	O Proxy Server O Gateway PSTN V						
Backup Route via	O Proxy Server O Gateway PSTN V	After confirming the modification					
Drop Digits	1	you've does, please click on the					
Prefix	2	[Apply] button to add the call route					
Apply Cancel							



	Name	Pattern	Pr	imary Route via	Drop Digits	Prefix	Action	
	Default				0		Edit	
	PSTN_LOCAL	8.	11	PSTN	1	1	Edit	
	PSTN_0204	80204.		PSTN	1	3	Edit	
	PSTN_0922	80922.		PSTN	1	2	Edit	
Delete Add Apply								
After confirming the modification you've does, please click on the [Apply] button again to make the gateway effective.								

## **NOTE**:

Please repeat the same previous step to create for above indicate call route list.





#### IP PBX

System

Proxv Server

Gateway

Call Route

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Block List

Users Mamt.

Call Status

Route Group

Hunt Group

Call/Pickup Group

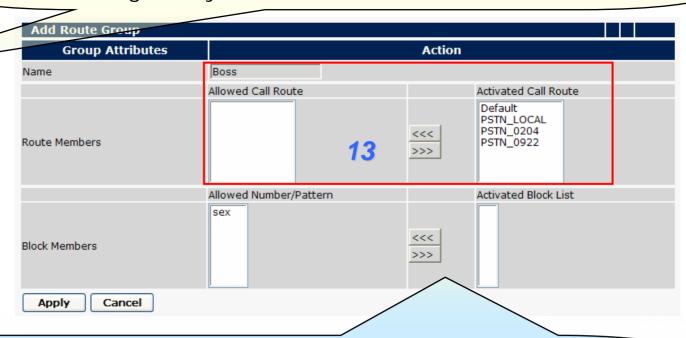
CDR

Auto Attendant

Upload Voice File

Select the

[IP PBX->Route Group] of IP PBX to create a route rule which connect with gateway.



Because the group is for Boss to uses, so without any restrictedly, please to get the whole call route rule move to **Activated call Route** field, and click on the [Apply] button return to Route Group list.



Add Route Group						
Group Attributes	Action					
Name	Manager					
	Allowed Call Route	Activated Call Route				
Route Members	PSTN_0204 14	Default PSTN_LOCAL PSTN_0922 >>>				
	Allowed Number/Pattern	Activated Block List				
Block Members	sex	<<< >>>				
Apply Cancel						

As above indicate to get the parts of call route rule move to **Activated** call **Route** field, and click on the [Apply] button return to Route Group list.

The manager group is allow dialer able to dialed cell phone number and internal calls but can't dialed international phone number.



Add Route Group					
Group Attributes	Action				
Name	Staff				
	Allowed Call Route	Activated Call Route			
Route Members	PSTN_0204 PSTN_0922	Default PSTN_LOCAL >>>			
	Allowed Number/Pattern	Activated Block List			
Block Members	sex	<<< >>>>			
Apply Cancel					

As above indicate to get the parts of call route rule move to **Activated** call **Route** field, and click on the [Apply] button return to Route Group list.

The staff group only make a call to local phone and internal calls.

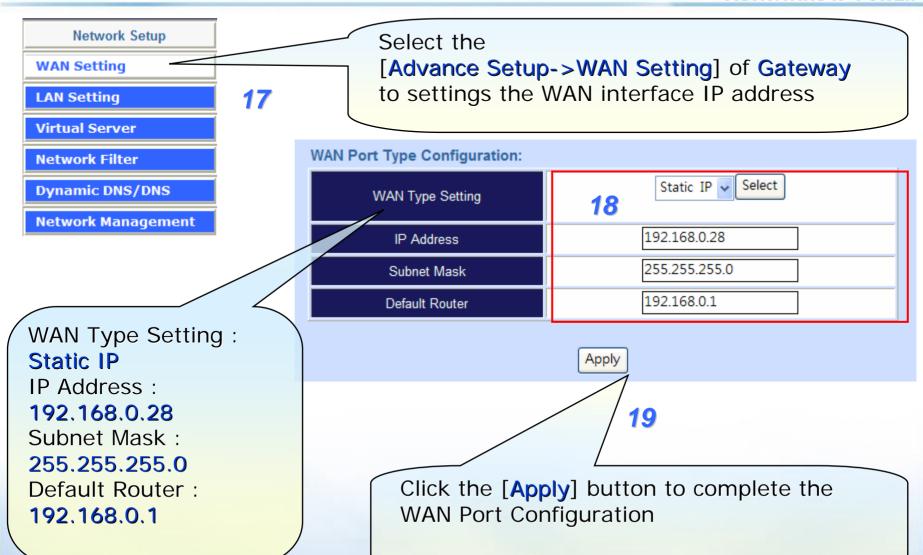


Rout	Route Group							
	Group Name	Action						
	Default	Edit						
	Boss	Edit						
	Staff 16	Edit						
	Manager	Edit						
Delet	Delete Add Apply							

Please click [Apply] again for activate the configuration and write into the flash memory.



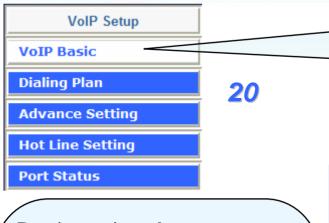




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Registration Account

Settings:

Number: 200 / 201

Check the Reg item

Account: 200 / 201 Password: 200 / 201

Check Hunting Member item for port 1 and Port 2

Select the [Advance Setup->VolP Basic] of Gateway to settings the FXO port SIP account





#### **ACTIVATING IP POWER**

SIP Proxy Settings:
Domain/Realm:

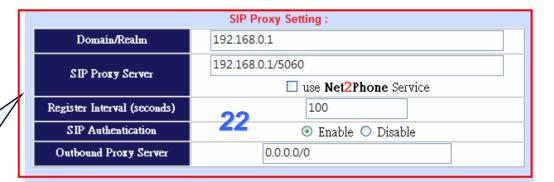
**192.168.0.1** 

SIP Proxy Server:

192.168.0.1/5060

SIP Authentication:

**Enable** 



# NAT Pass Setting: NAT Pass Method ○ STUN ⊙ Symmetric RTP STUN Server IP Address 64.69.76.21 STUN Server port 3478

Local SIP Port 5060

Apply

Click the [Apply] button to complete the VoIP Basic Configuration

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VoIP Setup

VoIP Basic

Dialing Plan

Advance Setting

Hot Line Setting

Port Status

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Select the

[Advance Setup->Dialing Plan] of Gateway to added the dialing plan number.

Incoming Dial Plan: (maximun 50 entries, maximun length of prefix digits is 16 digit, maximun length of number is 20 digit):

	Item	Incoming no.	Length of Number	Delete Length	Prefix no.	Destination telephone port	Operation
	1	1	1 ~ 9	1	None	1,2	
	2	2	1 ~ 11	1	None	1	
+	3	3	1 ~ 13	1	None	2	
		<b>25</b>	~				ADD
	•	DELETE Inbo	ound Dial Plan	From	т То		

Incoming Dial Plan: Incoming no: 1 Length of Number:

1 ~ 9

Delete Length: 1

Prefix no: Null

Destination

telephone Port: 1,2

And click on the ADD button to loaded into the list.

## **NOTE**:

Please repeat the same previous step to create for above indicate dial plan list. these incoming no. 1, 2 and 3 the main of discriminate for local, mobile, international calls, for example, the local call as 8 + 22199518 equals 9 digit.





VoIP Setup

VoIP Basic

Dialing Plan

Advance Setting

Hot Line Setting

Port Status

Select the

[Advance Setup->Hot Line Setting] of Gateway to settings the hotline number.

\_\_\_

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HotLine number settings Port 1 number : **9997** 

Port 2 number : **9997** 

Auto dialed 9997 for

incoming calls.

Hot Line Number Setting (Hotline Setting)

Hotline Delay

O Disable O Enable

Hotline Delay Time(Max. 20 sec)

3 sec

Port 1 number 9997

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Port 2 number 9997

Apply 28

Click the [Save Configuration] button to save parameter and then click the [Reboot] button to restart after save configuration.

Main Menu Reboot Save Configuration Logout

Click the [Apply] button to complete the Hot Line Configuration

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## **Usage:**

A. Making a local calls.

Pick up the handset and input number 822199518 when listen to dial-tone.

B. Making a phone call to mobile phone.

Pick up the handset and input number 80922123456 when listen to dial-tone.

C. Making a international calls.

Pick up the handset and input number 8020410011554 when listen to dial-tone.

### **Restricted rule:**

	Local	Mobile	International
Boss (900)	V	V	V
Manager (800)	V	V	
Staff (100 - 104)	V		

#### NOTE:

The mentioned parameters and network settings in this sample be carefully modified to meet the real-world applications.



## **ACTIVATING IP POWER**







