

Internet Telephony PBX System

**IPX-2000/1800 Series
PBX with FXO GW Configuration**



- This chapter introduces more than PSTN lines in the IP PBX and install the SIP voice gateways with FXO interface as extensions of the PBX system, and the amount of the PSTN interface will be increased to meet the demands.

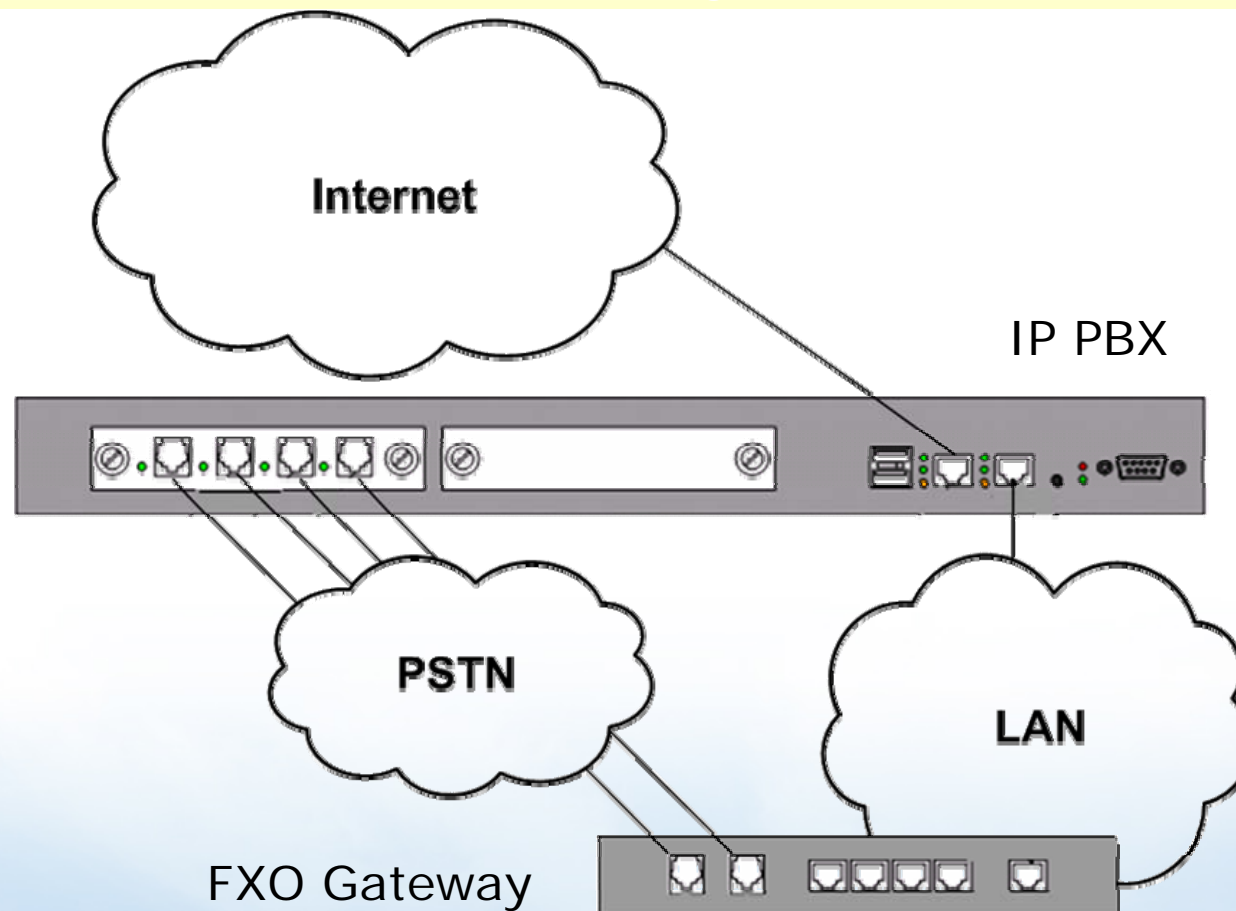
- The ID of the SIP trunk is 555 and to set the route destination number 91. Accordingly, Users could dial 91 switch to gateway FXO port.

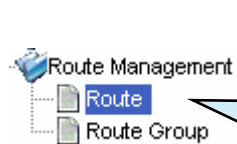
- When remote call PSTN number to gateway , FXO start the Hot line dialing to IP PBX and into IVR system.



Case 3: IP PBX-Trunk-Gateway Configuration

Company A, want to expanded PSTN Line decided to create a private SIP trunk to connect Gateway.





1

Select the [Route->Route] of IP PBX to create the Routes for the gateway.

:: ROUTE MANAGEMENT

Route ID	Description	Destination Number Pattern	Number of Stripped Digits	Prefix	
PBX_TO_GW		91	2	555	ADD
DEL					

2

Create a Route ID :**PBX_TO_GW**

Destination number pattern : **91**

Number of stripped digits: **2**

Prefix: **555**

This Route is for user to dial 91 then striped 91 of dialed 555 call be transferred to the gateway.



3

Select the [Route->Route group] of IP PBX to add the previous Routes to a Route group

:: ROUTEGROUP MANAGEMENT

ROUTE GROUP ADD

Group ID	RG_PBX_TO_GW	
Description	<input type="text"/>	SET
Associated Routes	<div style="border: 1px solid blue; padding: 2px;">PBX_TO_GW</div> <div style="border: 1px solid blue; padding: 2px;">PSTN</div> <div style="border: 1px solid blue; padding: 2px;">PSTN_1</div> <div style="border: 1px solid blue; padding: 2px;">SIP_B_TO_A_AA</div>	ADD DEL
	<div style="border: 1px solid blue; padding: 2px;">PBX_TO_GW</div>	
BACK		

4

Create a Route group **RG_GW_TO_PBX**, then add the Route **TO_GW_1** and Route **TO_GW_2** to the Route group.



5

Select the [Trunk->SIP trunk] of IP PBX to create a SIP trunk which connect with Gateway

:: SIP TRUNK MANAGEMENT

Trunks Add New

Trunk Identifier	555
Description	
<input checked="" type="checkbox"/> Dynamic Peer	
Auth. Name	555
Auth. Password	...
<input checked="" type="checkbox"/> Registration Required	
Outbound Routegroup	RG_PBX_TO_GW
<input type="checkbox"/> DID by Privilege	
DID of Extension	
DID Prefix	
DID Stripping	
Language	English
IVR List	
Usergroup of Privilege	UG_DEF

Advanced Settings

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Trunk identifier: **555** (this number is for Gateway to hot line to auto attendant)
Check Dynamic peer
Auth. Name: **555**
Auth. password: **555**
Outbound routegroup: **RG_PBX_TO_GW**



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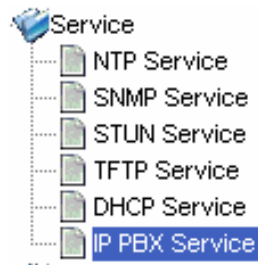
Select the [User->Usergroup] of IP PBX to associate the SIP trunk 555 to corresponding usergroup

:: USER GROUP MANAGEMENT

Group ID	UG_DEF		SET
Description			
Associated Trunks	555	Group ID Weight	888,0,0
	888		
	pstn1	0	DEL
			pstn1,0,0
Reachable User Groups	UG_DEF	ADD	UG_DEF
		DEL	
Associated PBX Features	mm	ADD	mm
	parkedcalls	DEL	parkedcalls
	vm		vm
Member List	User:admin		
	Callers_from_SIP_Trunk:888		
	Callers_from_SIP_Trunk:555		
	Callers_from_PSTN_Trunk:pstn1		
BACK			

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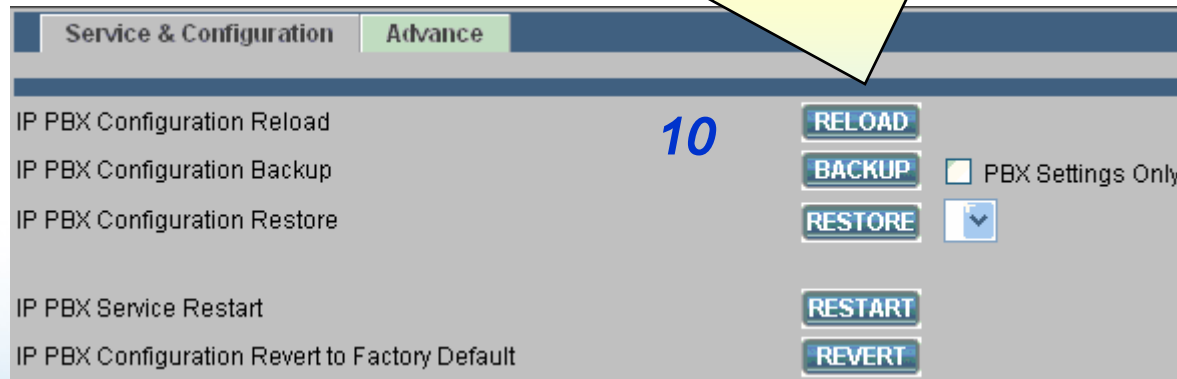
Associate the SIP trunk 555 to the usergroup UG_DEF



9

Select the [Service->IP PBX service] of IP PBX to reload the IP PBX configuration.

Click the [Reload] button to reload the IP PBX configuration. After completed the setting of IP PBX then connect to Gateway to finish rest procedures.



- VoIP Setup
- VoIP Basic**
- Dialing Plan
- Advance Setting
- Hot Line Setting
- Port Status

11

Select the [Advance Setup ->VoIP Basic] of gateway to setting port number configuration.

Port Number / Password Setting:

Number :555

Check Reg

Account: 555

Password: 555

Use Public Account: **Enable**

Check Hunting Member

Port 1 and Port 2

(Then when port 1 are on call, the other one SIP call from internet will ring port 2.)

VoIP Basic Configuration

VoIP Protocol Setting SIP

Port Number / Password Setting(MAX 20 digit) :

No.	Number	Reg	Account	Password	Register Status	Reason
1	555	<input checked="" type="checkbox"/>	555	...	Success	OK
2		<input type="checkbox"/>				

Use Public Account (PORT 1) Enable Disable

SIP Hunting Table :

No.	Hunting Member
1	<input checked="" type="checkbox"/> Port 1 <input checked="" type="checkbox"/> Port 2
2	<input checked="" type="checkbox"/> Port 1 <input checked="" type="checkbox"/> Port 2

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SIP Proxy Setting:
Domain/Realm:
192.168.1.1
SIP Proxy Server:
192.168.1.1/5060
SIP Authentication :
Enable
Outbound Proxy Server:
192.168.1.1/5060

SIP Proxy Setting :

Domain/Realm	192.168.1.1
SIP Proxy Server	192.168.1.1/5060
Register Interval (seconds)	100
SIP Authentication	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Outbound Proxy Server	192.168.1.1/5060

use **Net2Phone** Service

NAT Pass Setting:

NAT Pass Method	<input type="radio"/> STUN <input checked="" type="radio"/> Symmetric RTP
STUN Server IP Address	64.69.76.21
STUN Server port	3478

Local Setting:

Local SIP Port	5060
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Apply

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Click the **[Apply]** button to complete the VoIP Basic configuration.

- VoIP Setup
- VoIP Basic**
- Dialing Plan**
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Select the [Dialing Plan] of gateway to add the Dialing Plan Number.

Outgoing Dial Plan
 Outgoing no: **0555**
 (this number is for hot line to IP PBX)
 Length of Number: **4~4**
 Delete Length: **1**
 Destination IP/DNS: **192.168.1.1**
 Destination Port : **5060**
 This Dialing Plan is for gateway to hot line 0555 then striped 0 dialed 555 call be transferred to the IP PBX.

Item	Outgoing no.	Length of Number	Delete Length	Prefix no.	Destination IP/DNS	Destination Port	Operation
	0555	4 ~ 4	1		192.168.1.1	5060	ADD

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

Item	Outgoing no.	Length of Number	Delete Length	Prefix no.	Destination IP/DNS	Destination Port	Operation
1	0555	4 ~ 4	1	None	192.168.1.1	5060	
							ADD

DELETE Outbound Dial Plan From To

VoIP Setup
VoIP Basic
Dialing Plan
Advance Setting
Hot Line Setting
Port Status

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Select the [Hot Line Setting] of gateway to add the Hot Line Number.

Hot Line Number Setting (Hotline Setting)

Hotline Delay	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Hotline Delay Time(Max. 20 sec)	<input type="text" value="3"/> sec
Port 1 number	<input type="text" value="0555"/>
Port 2 number	<input type="text" value="0555"/>

Apply

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Hot Line Number Setting
Port 1 Number : 0555
Port 2 Number : 0555

Main Menu **Reboot** Save Configuration Logout

20

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

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Click the [Apply] button to complete the Hot Line Number configuration.

ACTIVATING IP POWER

