PLANET Networking & Communication

ACTIVATING IP POWER

Internet Telephony PBX System

IPX-600

IP PBX with Gateway Restricted PSTN Calls Configuration

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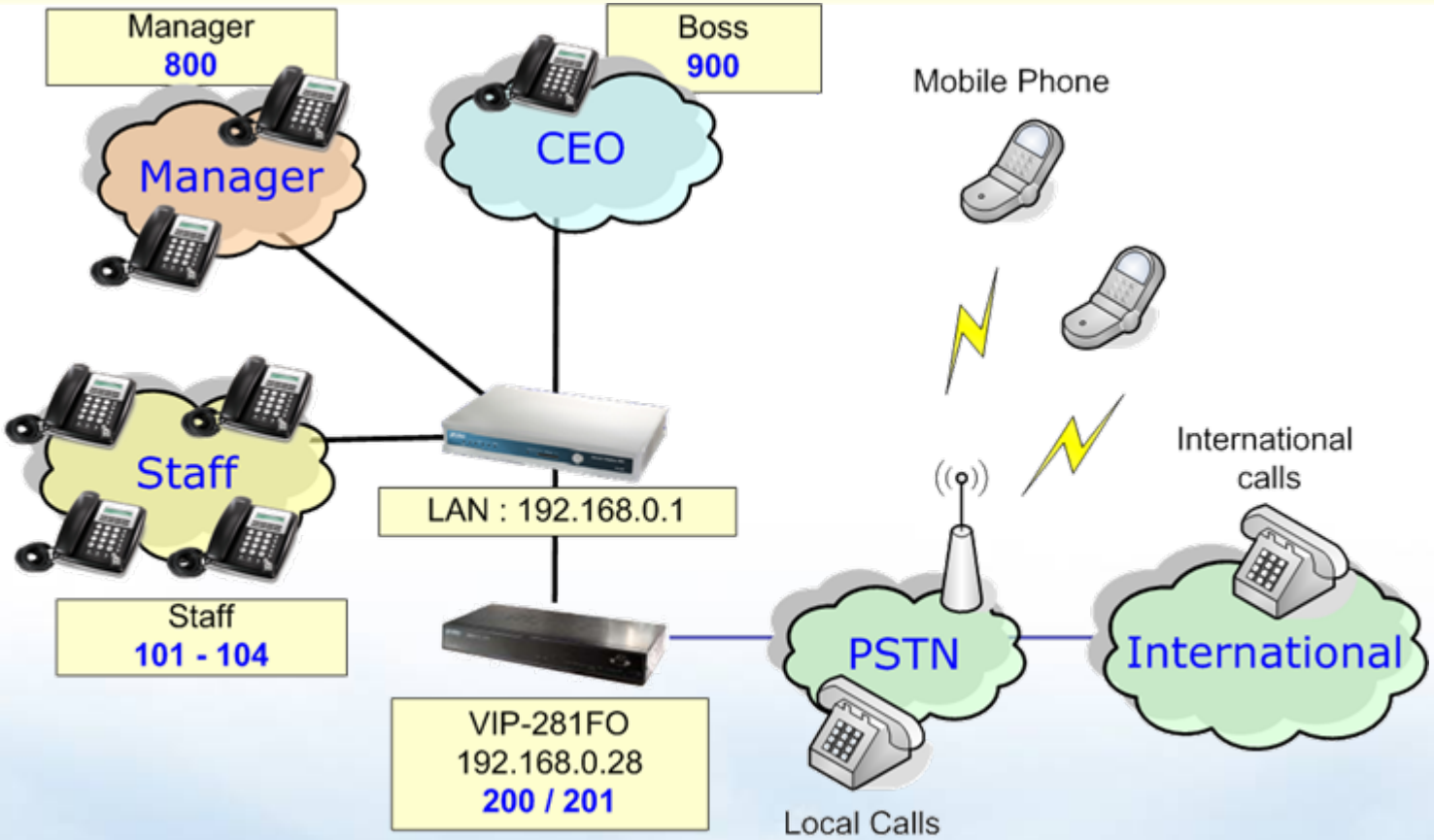
Scenarios explain: SIP Proxy Mode

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.

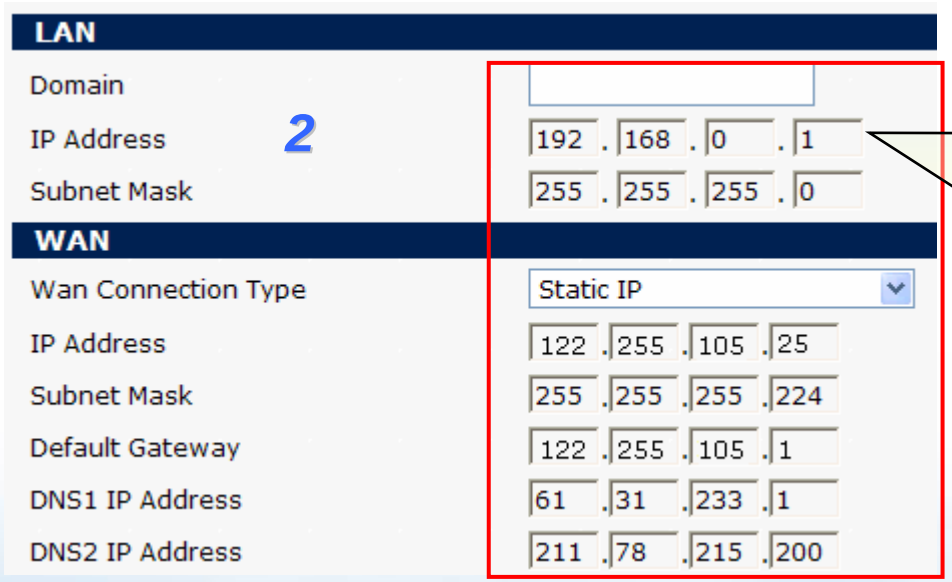
Please refer to the following descriptions and insert proper parameters configurations into the each device for establish the voice communications.



- Status
- Network Setup
- DHCP Server
- IP PBX
- NAT Advanced
- Log
- Management

1

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.



2

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
- Block List
- Users Mgmt.
- Call Status
- Hunt Group
- Call/Pickup Group
- CDR
- Auto Attendant
- Upload Voice File

3

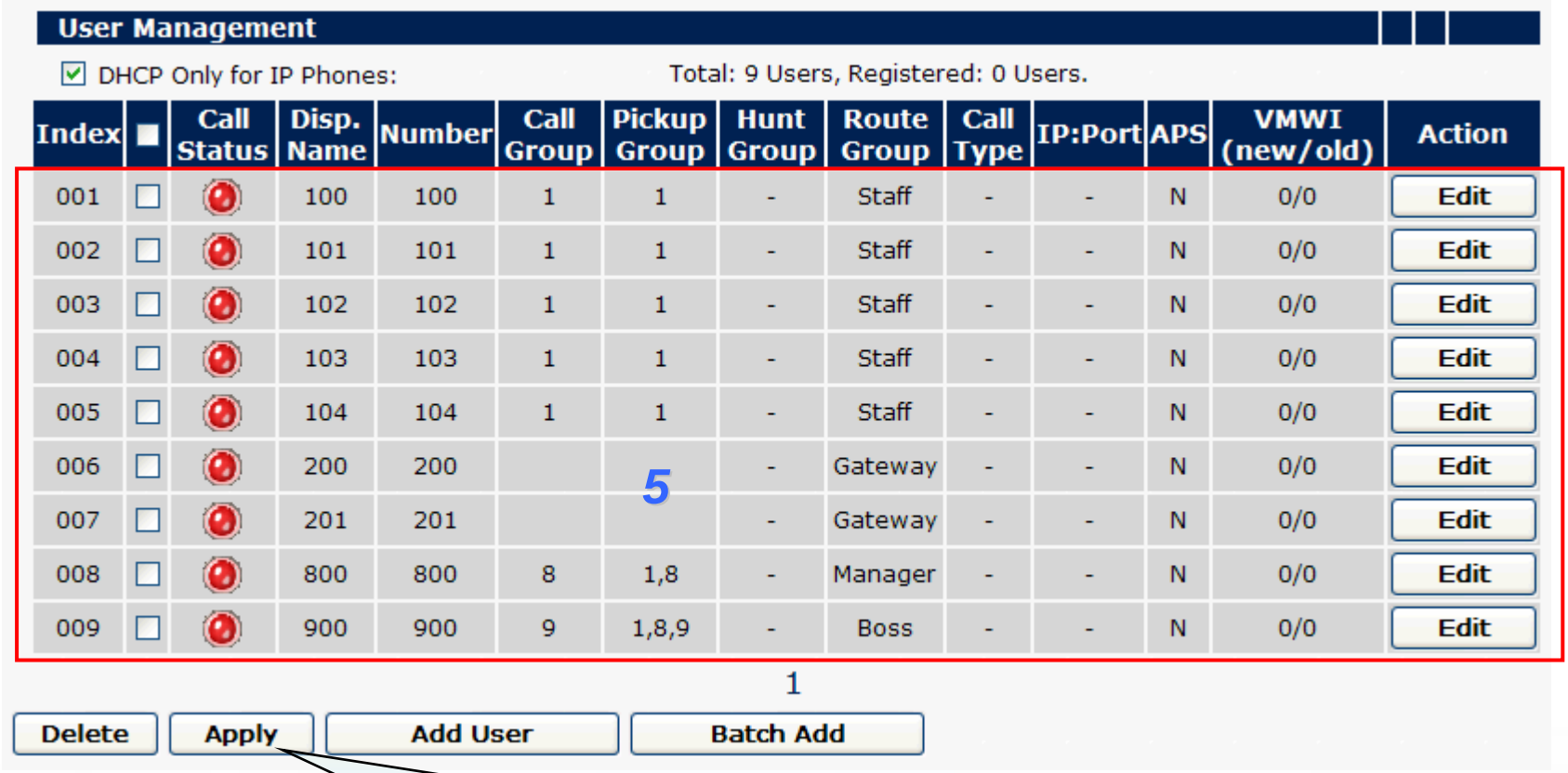
Select the [IP PBX->Users Mgmt.] of IP PBX and click **Add User** button or **Batch Add** button to create user account.

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

4

First Number: 100
Number of users : 5
Password: 100
Check Auto-increase
GoTo VM after Ringing: 30

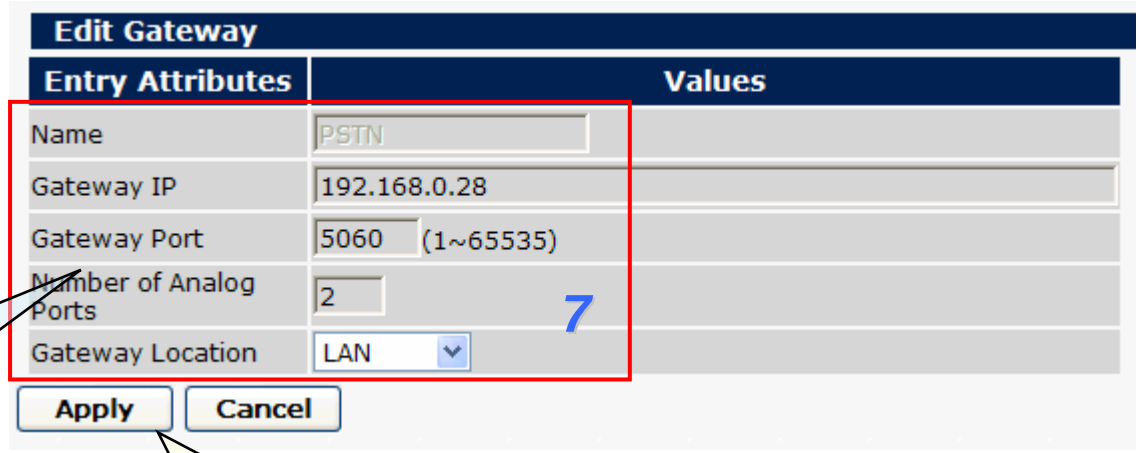
(As you requirement to create users counts.)



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

6

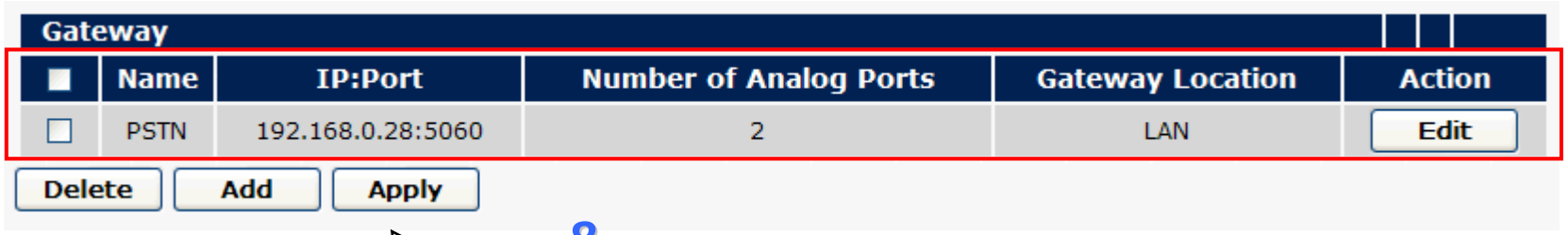
Select the [IP PBX->Gateway] of IP PBX and click Add button to add gateway for the IP PBX.



7

Please fill in that gateway 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.



8

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 gateway list.

IP PBX
- System
- Proxy Server
- Gateway
- Call Route
- Block List
- Users Mgmt.
- Call Status
- Hunt Group
- Call/Pickup Group
- CDR
- Auto Attendant
- Upload Voice File

8

Select [IP PBX->Call Route] of IP PBX to and click Add button to 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)

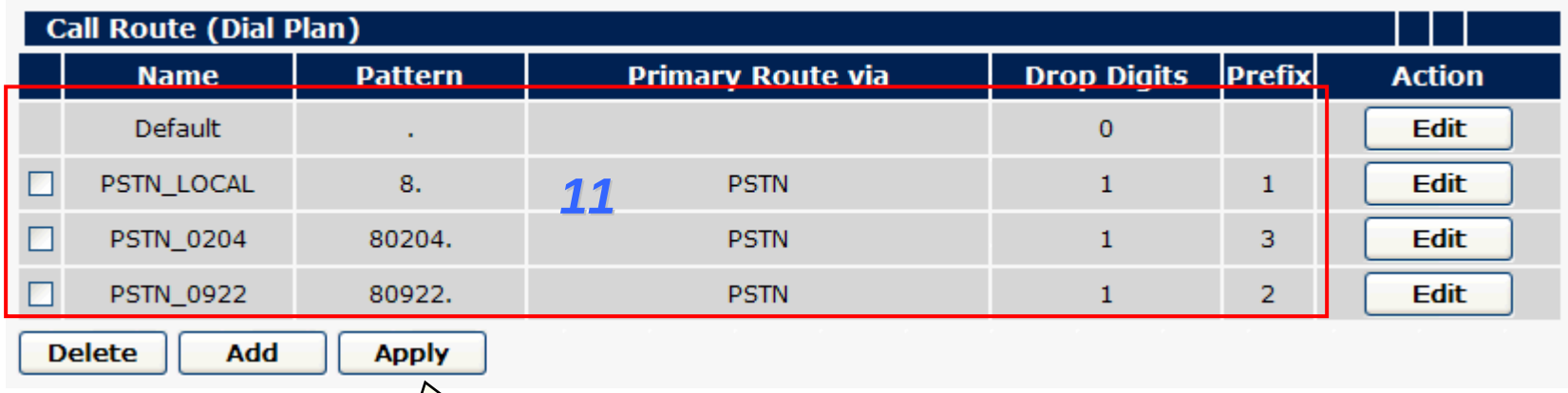
Route Attributes	Values
Name	PSTN_0922
Pattern	80922.
Primary Route via	Proxy Server / Gateway PSTN
Backup Route via	Proxy Server / Gateway PSTN
Drop Digits	1
Prefix	2

9

10

Apply Cancel

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

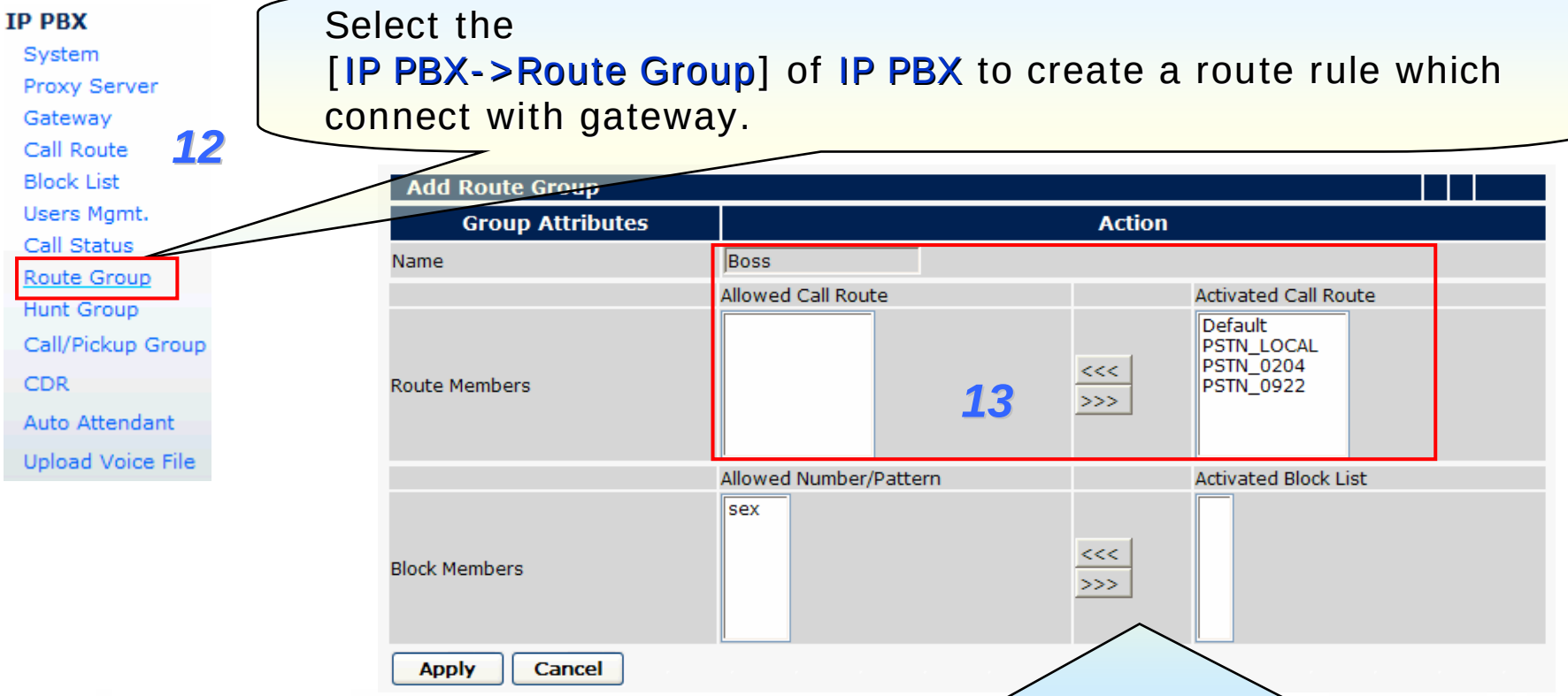


After confirming the modification you've does, please click on the [Apply] button again to make the gateway effective.

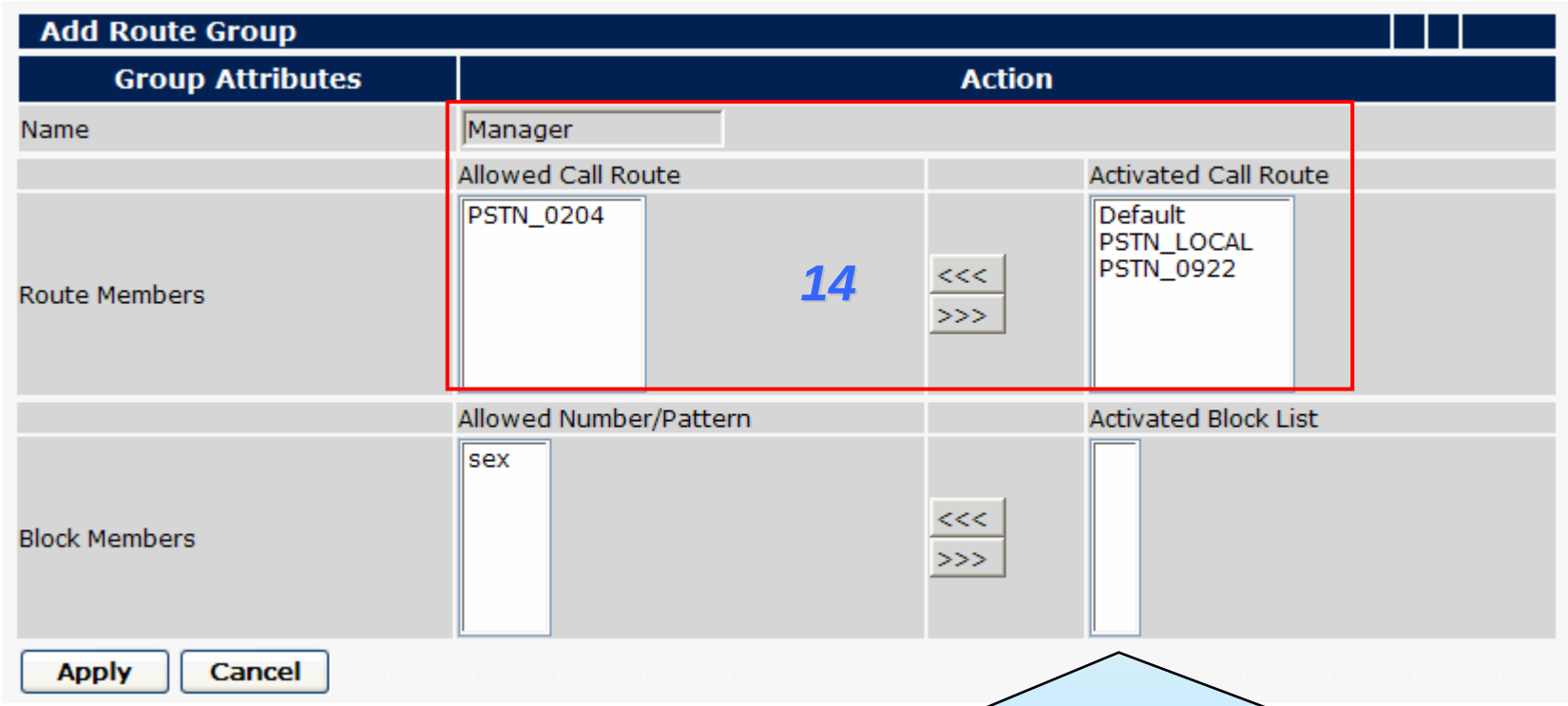
NOTE :

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

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

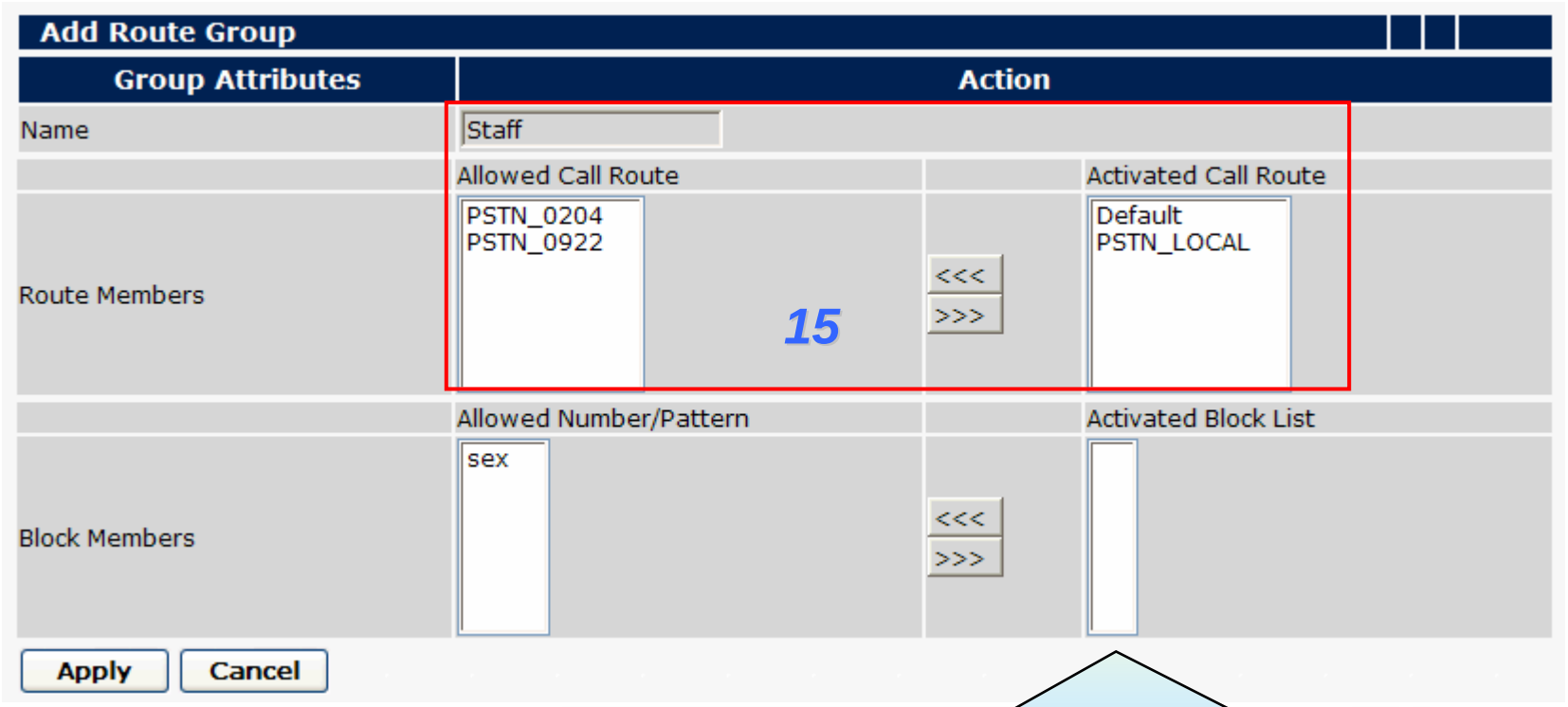


Because the group is for Boss to uses, so without any restrictedly, please to get the whole call route rule move to Activated call Route field, and click on the [Apply] button return to Route Group list.



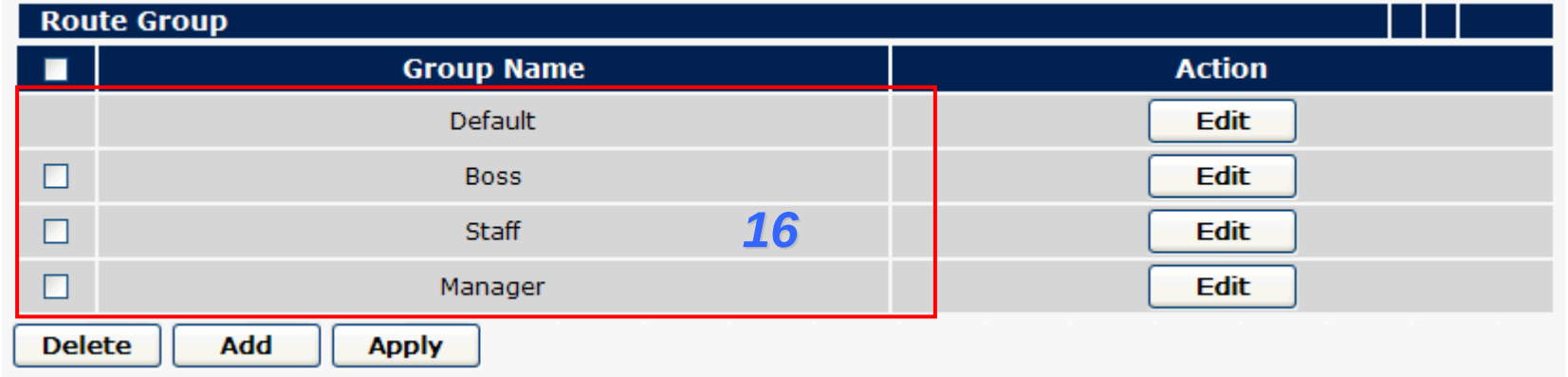
As above indicate to get the parts of call route rule move to **Activated call Route** field, and click on the [**Apply**] button return to Route Group list.

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

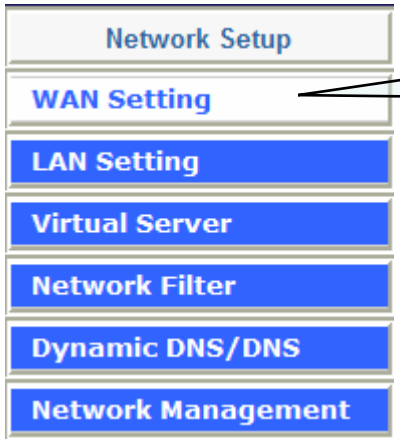


As above indicate to get the parts of call route rule move to **Activated call Route** field, and click on the [**Apply**] button return to Route Group list.

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

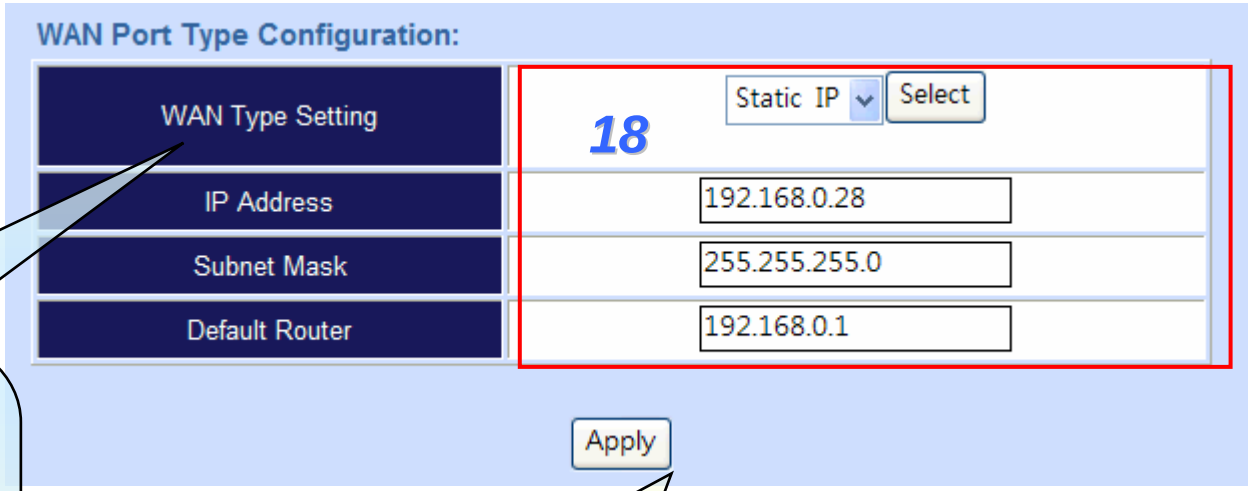


Please click [Apply] again for activate the configuration and write into the flash memory.



17

Select the [Advance Setup->WAN Setting] of Gateway to settings the WAN interface IP address



WAN Type Setting :
Static IP
IP Address :
192.168.0.28
Subnet Mask :
255.255.255.0
Default Router :
192.168.0.1

19

Click the [Apply] button to complete the WAN Port Configuration

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

20

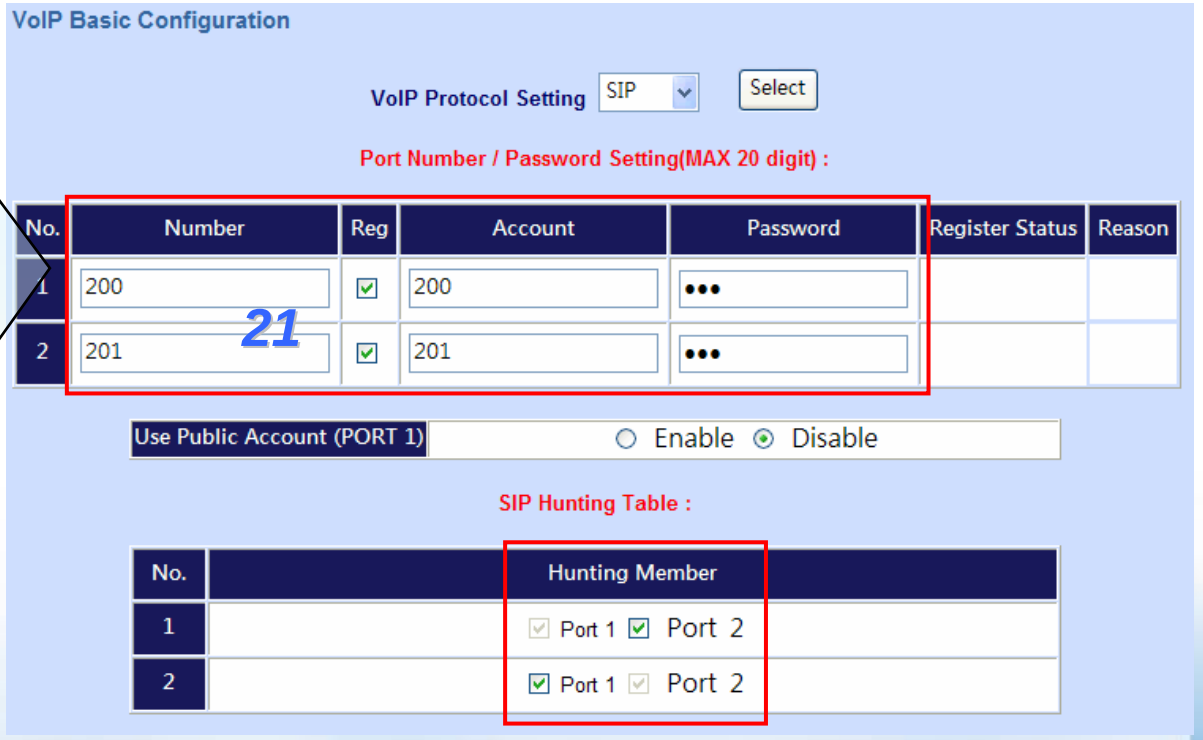
Select the [Advance Setup->VoIP Basic] of Gateway to settings the FXO port SIP account

Registration Account Settings :
Number : 200 / 201

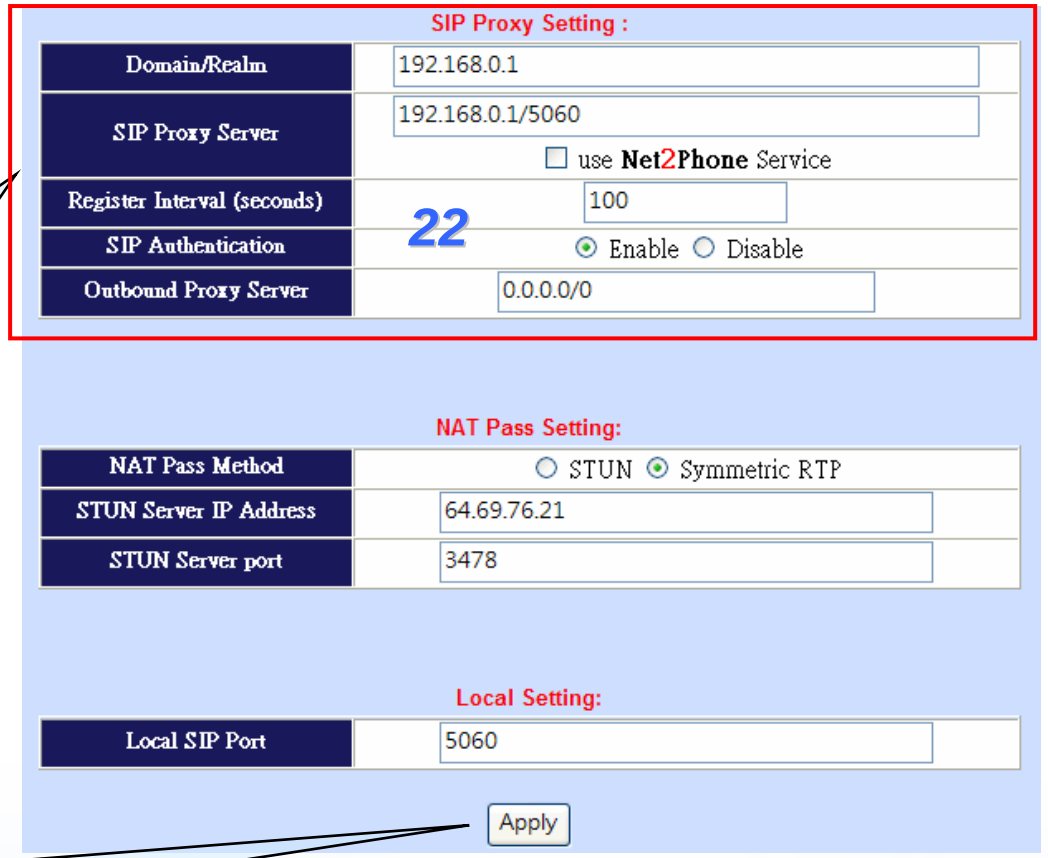
Check the Reg item

Account : 200 / 201
Password : 200 / 201

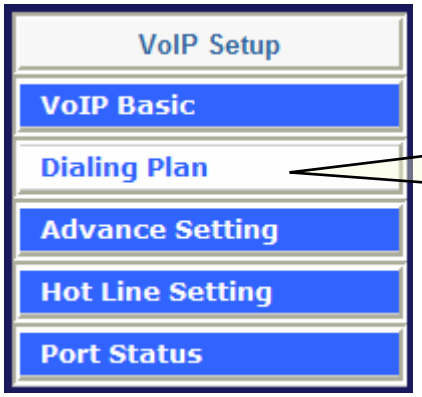
Check Hunting Member item for port 1 and Port 2



SIP Proxy Settings :
Domain/Realm :
192.168.0.1
SIP Proxy Server :
192.168.0.1/5060
SIP Authentication :
Enable



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



24

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	
	25	~				ADD

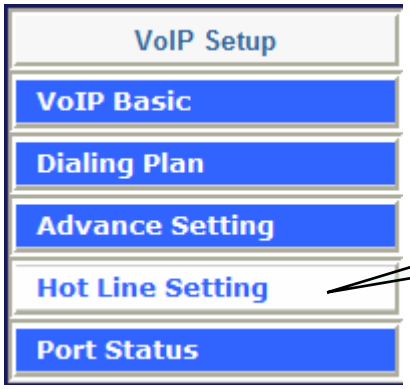
DELETE Inbound Dial Plan From To

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.

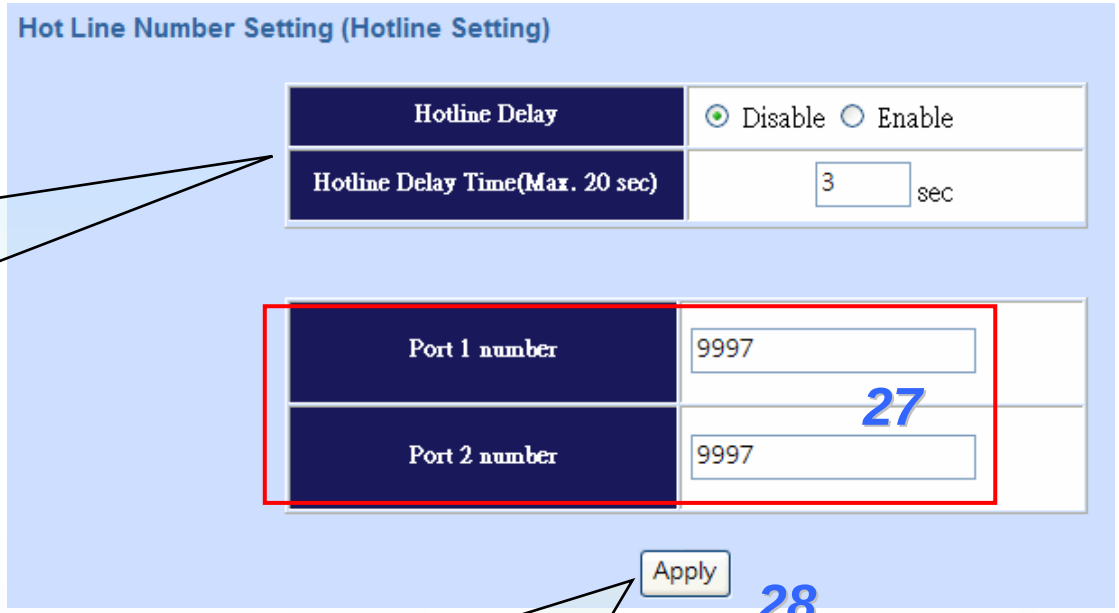
NOTE :

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.



26

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



HotLine number settings
Port 1 number : 9997
Port 2 number : 9997
Auto dialed 9997 for incoming calls.

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

29

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

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.

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Activating IP Power