

Register to MyPBX Server remotely

The general environment for MyPBX and user in different location is: MyPBX and user are both behind router and using the private IP.

Flowchart:



Note: Since the MyPBX doesn't have the public IP, we need to set up "port forwarding" function in the router .

Step 1 Set up "port forwarding" function in the router for MyPBX.

Example: The router's public IP is '102.42.46.120'.

Because the MyPBX is behind the router, Register to MyPBX remotely, you need to forward the SIP port in your router, so all the packets received on the router WAN port (102.42.46.120:5060) will be forwarded to the MyPBX (192.168.5.150:5060). Below is the setting page in a Linksys router:

Note: we must map UDP port 5060 and UDP port 10001-12000.



LINKSYS A Division of Cisco Systems, Inc.								Firmware Version: 1.04.06		
Applications & Gaming	Etherfast® Cable/DSL Router BEFSR41									
	Setup Port Range Fo	Sec	urity Port Tri	Applications & Gaming ggering	Administr	ation	Status DMZ	QoS		
Port Range Forwarding							Port Rar	ige Forwarding		
		Port Range						Port Range Forwarding can be used to set up public services		
	Application	Start	End	Protocol	IP Address	Enabled	on your ne from the Int	twork. When users ternet make certain		
	SIP	5060 to	5060	UDP 💌	192.168.5.11	N	requests o Router can	n your network, the		
	SIP-RTP	10001 to	12000	UDP 💌	192.168.5.11	M	requests to to bandle ti	requests to computers equipped		
		0 to	0	Both 💌	192.168.5.0		example, y number 80	example, you set the port number 80 (HTTP) to be forwarded to IP Address 192.168.1.2, then all HTTP		
		0 to	0	Both 💌	192.168.5.0		forwarded 192.168.1			
		0 to	0	Both 💌	192.168.5.0		be forward	om outside users will ied to 192.168.1.2. It		
		0 to	0	Both 💌	192.168.5.0		is recommended that the computer use static IP			
		0 to	0	Both 💌	192.168.5.0		address.			
		0 to	0	Both 💌	192.168.5.0		You may use this function to establish a web server or FTP			
		0 to	0	Both 💌	192.168.5.0		server via sure that y	an IP Gateway. Be ou enter a valid		
		0 to	0	Both 💌	192.168.5.0		More			
								CISCO SYSTEMS		
				Save Sett	ings Cancel	Changes		adhoodhoo		

Figure 1

Step 2 Configure NAT settings in MyPBX.

MyPBX -> SIP Settings -> NAT, configure the NAT settings according to below page. **External IP**: your router's public IP address

External Host:

External refresh:

Local Network Address:192.168.5.0/255.255.255.0 (change this according to your network configuration)

NAT mode: Yes

Allow RTP Reinvite: No

Extern IP 🛈 :	102.42.46.120
Extern Host🛈:	
Extern Refresh🛈:	
Local Network Address00:	192.168.5.0/255.255.2
NAT Mode🛈:	yes 💌
Allow RTP Reinvite	no 💌

Figure 2-6



Step 3 Setup up an extension in MyPBX (e.g.:509).

General

Type: SIP; Extension: 509; Phone number of this extension Password: 509; Name: 509; Caller ID: 509;

VoIP Settings

NAT: yes **Note**: please enable NAT.

Register Remotely: yes

Note: If the firmware version number of MyPBX is greater than or equal to X.17.X.X, there should be this option in the extension edit page.

Optional Settings 奈 VolP Settings	
NAT 🛈 : 🔽 Qualify: 🗹	Enable SRTP 🛈 : 🗖
Transport: UDP - DTMF Mode : RFC2833	 Register Remotely ①:
ID Pastriction	
Enable IP Restriction	
Permitted 'IP address/Subnet mask' 1 0:	
Permitted 'IP address/Subnet mask' 2 🛈:	
Permitted 'IP address/Subnet mask' 3	
Permitted 'IP address/Subnet mask' 4 🔍:	
Mobility Extension	
Enable Mobility Extension Mobility	Extension Number
Call Duration Setting	
Max Call Duration	
Hux our Buraton	
✓ Save	e X Cancel

Figure 2



Step 4: Set up IP Phone register to 509 extension. (e.g.: Yealink IP Phone) If connect correctly, the Register status will be become "Registered".

Yealink									
Easy VOP	Status	Account	Network	Phone	Contacts	Upgrade	Security		
	ou mat		1 ccourt	+ 1 🔽	_	_			
ACC	ount	_	Accour		_				
Basic >>					Displa	Display Name			
	Register	Status	Register	ed		SIP se which	SIP service subscribers name which will be used for Caller ID display.		
	Line Acti	ve	• On	Ooff		ID dis			
	Label		509			Regis	ter Name		
	Display N	ame	509			Authe	SIP service subscribers Authenticate ID used for authentication. User Name User account information.		
	Register	Name	509			authe			
	User Nar	ne	509			User i User a			
	Password	t	••••			provid	led by VoIP service		
	SIP Serv	er	102.42	.46.120 Port	:5060	NATI	NAT Traversal Defines the STUN server will		
	Enable C	utbound Proxy Server	Disable	t 🔽		Define			
	Outbour	id Proxy Server		Port	:5060	be act	tive or not.		
	Transpor	t	UDP	~		A Spe	Proxy Require A Special parameter just for		
	Backup (Outbound Proxy Serve	r 🗌	Port 5060			Nortel server. If you login to Nortel server, the value		
	NAT Tra	versal	Disable	t 🔽		should	t be: portelpetworks frewall		
	STUN SE	rver	217.10	.79.21 Port	10000	Conta	ecs se the codecs you		
	Voice Ma	il	*2			Choose			
	Proxy Re	quire				want	want to use.		
	Anonym	ous Call	Off	~		Adva The A	vanced Advanced narameters		
	On Code	e				for ad	for administrator.		
	Off Cod	e							
	Anonym	ous Call Rejection	Off	~					
	On Code	e							
	Off Cod	Э							
	Missed c	all log	Enabled	d 💌					
	Auto An	swer	Disable	t 💌					

Figure 3

<Finish>