

Remote extensions

Remote SIP extensions

To register remote SIP extensions please follow the steps below:

Step 1: Port forwarding

A remote SIP extension requires the IPPBX system's SIP signaling port 5060 and RTP ports range from 10001-10500 to be opened to the Internet. So the SIP endpoints can register to the system and make phone calls.

Step 2: NAT support

To help VoIP traffic passing through NAT, you have to configure NAT support on the system. Navigate to Web menu *Advanced->Options->SIP Settings*. In the NAT Support section specify your public IP and local network addresses.

NAT Support	
External IP:	<u>117.176.159.157</u>
External Host:	<u>117.176.159.157</u>
External TCP Port:	<u>5060</u>
External TLS Port:	<u>5061</u>
External Refresh(sec):	<u>10</u>
Local Network Address:	<u>192.168.1.0/255.255.255.0</u>
Local Network Address:	<u>192.168.10.0/255.255.255.0</u>
Local Network Address:	<u></u>

Specifications:

- **External IP/External Host:** Here in these 2 blanks you should give your public IP address. If you don't have a fixed public IP you can use the DDNS feature on the system, after DDNS is successfully configured then you give your DDNS domain name here.
- **External TCP Port/External TLS Port:** If you are going to run SIP over TCP or TLS for remote extensions, you should enable TCP or TLS support in the "General" section upper on this page, and port forwarding on the router/firewall should be with TCP protocol. The port number here you have to specify is the external port number you defined on the router/firewall.
- **External Refresh (sec):** The refresh interval of the "External Host"
- **Local Network Address:** Your local network address/mask, e.g 192.168.1.0/255.255.255.0

Step 3: Register remote extensions

Here we take Coofone D60 for example:

	SIP	IAX2	STUN	DIAL PEER	MCAST
BASIC					
NETWORK					
▶ VOIP					
PHONE					
FUNCTION KEY					
MAINTENANCE					
SECURITY					
LOGOUT					

SIP Line

SIP 1 ▼

Basic Settings >>

Status	Registered	Domain Realm	
Server Address	117.176.159.157	Proxy Server Address	
Server Port	5060	Proxy Server Port	
Authentication User	800	Proxy User	
Authentication Password	*****	Proxy Password	
SIP User	800	Backup Proxy Server Address	
Display Name	800	Backup Proxy Server Port	5060
Enable Registration	<input checked="" type="checkbox"/>	Server Name	

If you use DDNS,pls use ddns instead of IP at here

Almost the same as you register a local extension, but in the server address blank you should use public IP or the DDNS domain name instead of private IP address.

If it runs on TCP or TLS, please click "Advanced SIP Settings" and choose TCP or TLS in the "Transport Protocol" dropdown list.

Transport Protocol	UDP ▼
Use VPN	UDP
Enable DND	TCP
	TLS

Notice:

SIP extension over TCP/TLS protocol also needs to enable TCP/TLS for the extension. Please select the transmission protocol on the extension configure page before registering from the phone.

And enable the NAT & Remote extension option

VoIP Settings

NAT: ☒

Transfer Protocol: UDP+TCP ▼

SRTP: ☐

Qualify: ☒

Remote Extension: ☒

DTMF Mode: RFC2833 ▼

Permit IP: _____

Video Options