



## How Phone Register To IPPBX

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## Contents

Zycoo-----	3
Yealink-----	3
Snom -----	5
Panasonic-----	6
GrandStream-----	8
Cisco -----	9
Aastra-----	11
Tiptel-----	12
Fanvil -----	14
Htek -----	16
Escene -----	17

**Common different sip phone register to zycoo IPPBX manually**

**Zycoo**

1. press OK button of phone ,then find the IP of phone , we will assume the IP Address of the phone is 192.168.17.251, and IP Address of PBX is 192.168.18.252
2. Point your browser to the web interface of the phone: http://192.168.17.251.
3. Enter the phone's login username (default "admin") and password (default)



4. Click on the "line" tab

**Basic Settings >>**

Line Status	Registered	Activate	<input checked="" type="checkbox"/>
Username	<input type="text" value="809"/>	Authentication Name	<input type="text" value="809"/>
Display name	<input type="text" value="809"/>	Authentication Password	<input type="text" value="....."/>
Realm	<input type="text"/>	Server Name	<input type="text" value="192.168.18.252"/>
<b>SIP Server 1</b>		<b>SIP Server 2</b>	
Register Address	<input type="text" value="192.168.18.252"/>	Register Address	<input type="text"/>
Register Port	<input type="text" value="5060"/>	Register Port	<input type="text" value="5060"/>
Transportation Protocol	<input type="text" value="UDP"/>	Transportation Protocol	<input type="text" value="UDP"/>
Registration Expiration	<input type="text" value="1800"/> Second	Registration Expiration	<input type="text" value="3600"/> Second
Proxy Server Address	<input type="text"/>	Backup Proxy Server Address	<input type="text"/>
Proxy Server Port	<input type="text" value="5060"/>	Backup Proxy Server Port	<input type="text" value="5060"/>
Authentication Name	<input type="text"/>		
Authentication Password	<input type="text"/>		

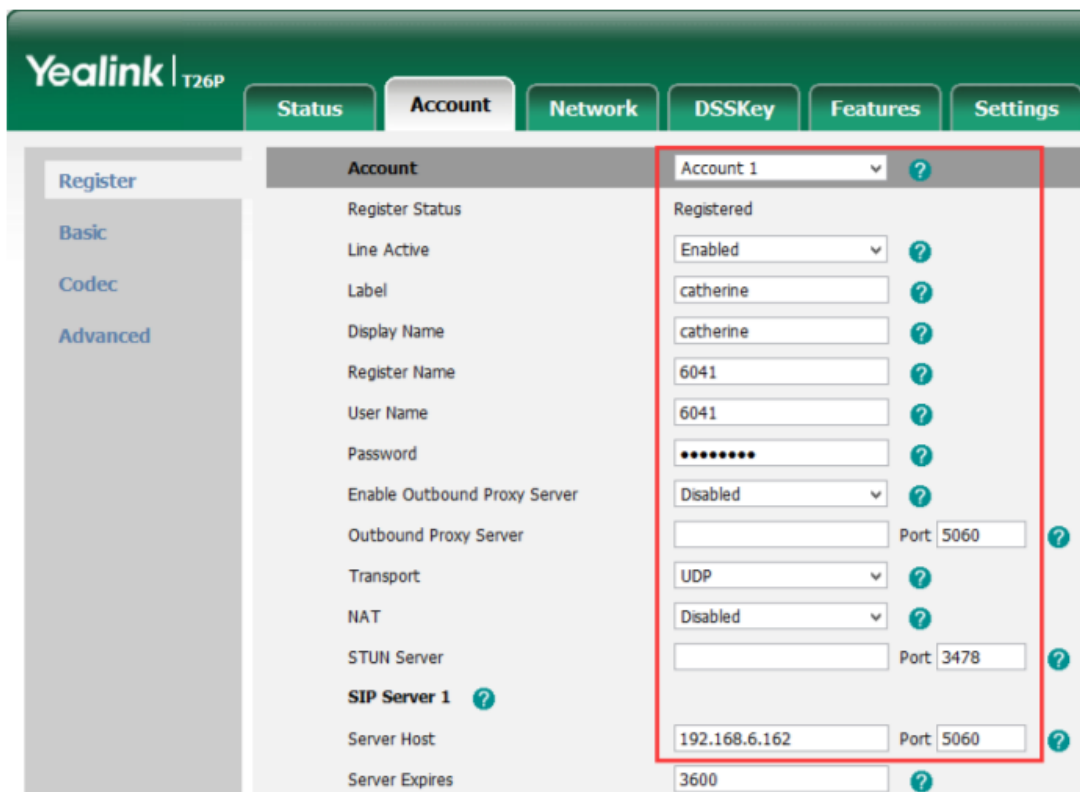
**Yealink**

1. Start up the phone and identify its IP Address – press the menu key on the phone, and select the "Settings" option. For this example we will assume the IP Address of the phone is 192.168.6.13, and IP Address of PBX is 192.168.6.162.

2. Point your browser to the web interface of the phone: <http://192.168.6.13>.
3. Enter the phone's login username (default "admin") and password (default)



4. Click on the "Account" tab



5. We now need to set the phone to register with Zycoo SIP Server. Ensure that the "Account" field is set to "Account 1", and in the "Basic" section, configure as follows:

6. Click the "Confirm" button at the bottom of the page. The phone will now register with Zycoo SIP Server. The Register Status "Registered" indicates that the extension is successfully registered to PBX.

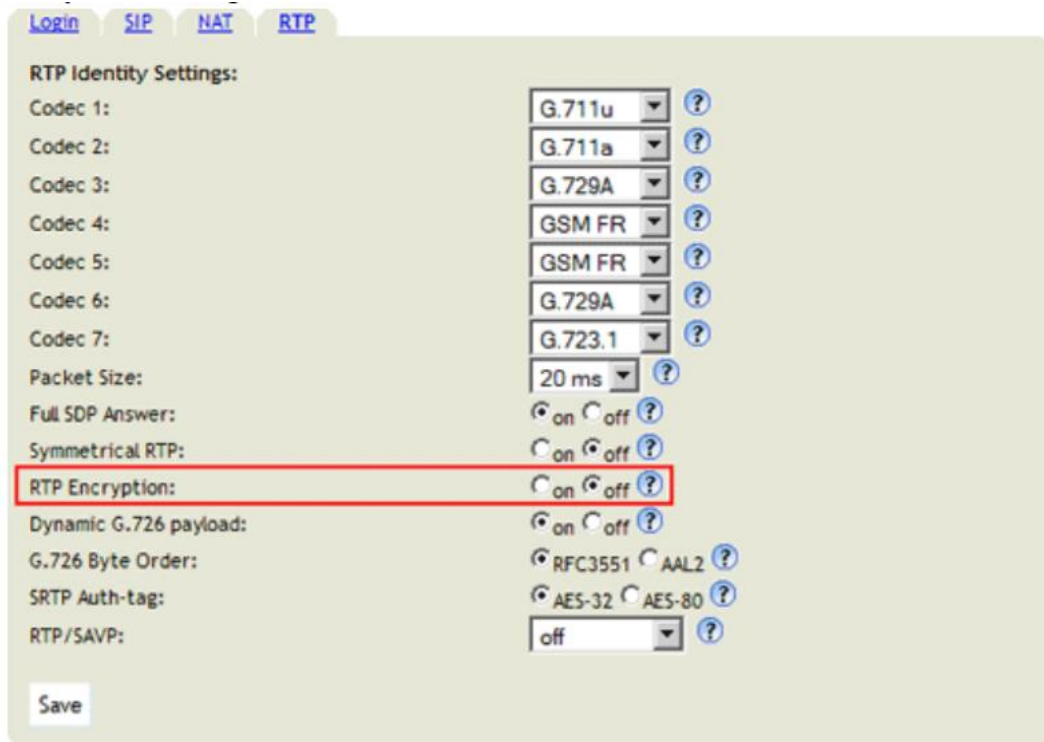
## Snom

1. Start up the phone and identify its IP Address by pressing the "Help" or "7" button. For this example we will assume the IP Address of the phone is 192.168.5.126, and IP Address of the Zycoo SIP Server Phone System machine is 192.168.5.250
2. Point your browser to the web interface of the phone: <http://192.168.5.126>. 3. We now need to set the phone to register with Zycoo SIP Server Phone System. Go to the "Setup -> Identity 1" page, and in the "Login" tab:

The screenshot shows the 'Login' tab of the phone's web interface. The 'Identity active' field is set to 'on'. The 'Displayname' field is 'Jane', 'Account' is '507', 'Password' is masked with asterisks, and 'Registrar' is '192.168.5.250:5060'. The 'Outbound Proxy' field is empty. The 'Failover Identity' is set to 'Identity 1'. The 'Authentication Username' is '507', 'Mailbox' is '\*60', and 'Ringtone' is 'Ringer 1'. The 'Custom Melody URL', 'Display text for idle screen', and 'XML Idle Screen URL' fields are empty. The 'Ring After Delay (sec)' field is empty. The 'Record Missed Calls', 'Record Dialed Calls', and 'Record Received Calls' fields are set to 'on'. The 'Identity is hidden' field is set to 'off'. At the bottom, there are buttons for 'Apply', 'Re-Register', 'Play Ringer', 'Remove Identity', and 'Remove All Identities'.

- 1) Set the "Identity Active" field to "on"
- 2) Set the "Display name" field to the name you want to appear on the Phone display
- 3) Set the "Account" field to the extension number you want to associate with this phone
- 4) Set the "Password" field to the extension's Authentication Password

- 5) Set the "Register" field to the IP Address of the Zycoo SIP Server Phone System – in this example, 192.168.5.250:5060.
  - 6) Set the "Authentication Name" field to the extension's Authentication ID
  - 7) Set the "Mailbox" field to your system's Special Voice Mail Extension Number.
4. Next, we need to adjust the audio parameters. Click on the "RTP" tab and ensure the "RTP Encryption" field to "off"



5. Click the "Save" button, and then click the "Reboot" button that appears at the top of the page. Your phone will restart. After rebooting, the phone will retrieve its configuration files and register with Zycoo SIP Server Phone System. This can be verified via the "Extension Status" page of Zycoo SIP Server Management Console.

## Panasonic

1. Point your browser to the web interface of the phone: <http://192.168.2.153> and enter the login credentials (default username "admin"; default password "adminpass")

2. We need to set the phone to register with Zycoo SIP Server. Click “VoIP -> Line 1” tab, and configure as follows: 1) In the "Phone Number" & “SIP Server” section:

Phone Number	
Phone Number	<input type="text" value="301"/>
SIP URI	<input type="text"/>

SIP Server	
Registrar Server Address	<input type="text" value="192.168.2.127"/>
Registrar Server Port	<input type="text" value="5060"/> [1-65535]
Proxy Server Address	<input type="text" value="192.168.2.127"/>
Proxy Server Port	<input type="text" value="5060"/> [1-65535]
Presence Server Address	<input type="text"/>
Presence Server Port	<input type="text" value="5060"/> [1-65535]

Phone number: the number of extension.

Registrar Server Address: the IP address of Zycoo SIP Server.

Registrar Server Port: the port number to use for communication with PBX.

Default value:5060.

Proxy Server Address: the IP address of PBX.

2) Authentication

Outbound Proxy Server	
Outbound Proxy Server Address	<input type="text"/>
Outbound Proxy Server Port	<input type="text" value="5060"/> [1-65535]
SIP Service Domain	
Service Domain	<input type="text"/>
SIP Source Port	
Source Port	<input type="text" value="5060"/> [1024-49151]
SIP Authentication	
Authentication ID	<input type="text" value="301"/>
Authentication Password	<input type="password" value="*****"/>

## GrandStream

### Configuring the Phone to Register with PBX

1. Start up the phone and identify its IP Address from the LCD display. For this example we will assume the IP Address of the phone is 192.168.5.126, and the IP Address of PBX is 192.168.5.150
2. Point your browser to the web interface of the phone: <http://192.168.5.126>. The default password is 'admin'.
3. We now need to set the phone to register with PBX. Go to the 'Account 1' page:

Grandstream Device Configuration

STATUS BASIC SETTINGS ADVANCED SETTINGS ACCOUNT 1 ACCOUNT 2 ACCOUNT 3 ACCOUNT 4 EXT 1 EXT 2

Account Active:  No  Yes

Account Name:  (e.g., MyCompany)

SIP Server:  (e.g., sip.mycompany.com, or IP address)

Outbound Proxy:  (e.g., proxy.myprovider.com, or IP address)

SIP User ID:  (the user part of an SIP address)

Authenticate ID:  (can be same or different from SIP UserID)

Authenticate Password:  (not displayed for security protection)

Name:  (optional, e.g., John Doe)

Use DNS SRV:  No  Yes

User ID is phone number:  No  Yes



- 1) Set the 'Account Active' field to 'yes'
  - 2) Set the 'Account Name' field to a name (for informational purposes only)
- Grandstream IP Phone Configuration Guides 4/15
- 3) Set the 'SIP Server' field to the IP Address of Zycoo SIP Server
  - 4) Set the 'SIP User ID' field to the extension number you want to associate with this phone
  - 5) Set the 'Authenticate ID' field to the extension's number
  - 6) Set the 'Authenticate Password' field to the extension's Password
  - 7) Set the 'Name' field to the name you would like to be displayed on other phones when calling out
  - 8) Set the 'User ID is phone number' field to 'yes'
  - 9) Click the 'Update' button at the bottom of the page, and then click the 'Reboot' button. Your phone will restart. After rebooting, the phone will retrieve its configuration files and register with PBX.

## Cisco

IP7940, IP7960, SPA501G, SPA502G, SPA504G, SPA508G, SPA509G, SPA512G, SPA514G, SPA525G2

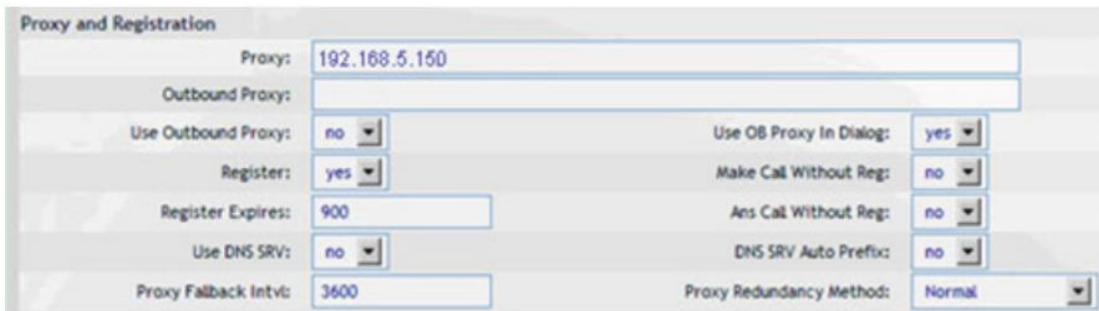
1. Start up the phone and identify its IP Address – using the menu key on the phone, go to the "Network" option and press the "Select" button. For this example we will assume the IP Address of the phone is 192.168.5.126, and IP Address of the Zycoo SIP Server machine is 192.168.5.150.
2. Point your browser to the web interface of the phone: <http://192.168.5.126>
3. Click on the "Admin Login" link, and next click on the "Advanced" link at the top of the page to the phone's advanced administration page



3. We now need to set the phone to register with Zycoo SIP Server. Click on the "Ext1" tab, and configure as follows: 1) Set the "Line Enable" field to "yes



- 2) In the "Proxy and Registration" section, set the "Proxy" field to the IP Address of the Zycoo SIP Server server – in this example, 192.168.5.150.



- 3) In the "Subscriber Information" section:



Set the "Display Name" field to the name you want to appear on the Phone display

Set the "User ID" field to the extension number you want to associate with this phone

Set the "Password" field to the extension's Authentication Password

Set the "Use Auth ID" field to "yes"

Set the "Auth ID" field to the extension's Authentication ID In the "Dial Plan" section, set the "Dial Plan" field to "[x\*]." (without the quotes)

5. Next, we need to configure the Voice Mail Number on the phone to be able to retrieve Voice Mail messages from Zycoo SIP Server. Click on the "Phone" tab and set the "Voice Mail Number" field to Voice Mail Number you have set in Zycoo SIP Server.

6. Next, we need to adjust the audio parameters. Click on the "SIP" tab and, in the "RTP Parameters" section, set the "RTP Packet Size" field to "0.020"



The screenshot shows the "RTP Parameters" configuration form. It contains the following fields and values:

RTP Port Min:	10000	RTP Port Max:	12000
RTP Packet Size:	0.020	Max RTP ICMP Err:	0
RTCP Tx Interval:	0	No UDP Checksum:	no
Symmetric RTP:	no	Stats In BYE:	no

Click the "Submit All Changes" button at the bottom of the page. Your phone will restart. After rebooting, the phone will register with the Zycoo SIP Server.

## Aastra

1. Start up the phone and identify its IP Address - using the menu key on the phone, go to the "Administrator Menu" option, key in your password (default password "22222"). Select "Network Settings" followed by "IP Address". For this example we will assume the IP Address of the phone is 192.168.5.126, and IP Address of the Zycoo SIP Server System machine is 192.168.5.150.
2. Point your browser to the web interface of the phone: <http://192.168.5.126>
3. Enter the login credentials (default username "admin"; default password "22222")
4. We need to set the phone to register with Zycoo SIP Server System. Click "Advanced Settings" > "Line 1" tab, and configure as follows:
  - 1) In the "Basic SIP Authentication Settings" section:

### Configuration Line 1



The screenshot shows the "Basic SIP Authentication Settings" form for Configuration Line 1. It contains the following fields and values:

Screen Name	Aastra 57
Screen Name 2	
Phone Number	500
Caller ID	500
Authentication Name	500
Password	***
BLA Number	
Line Mode	Generic

Set the "Screen Name" field to the name you want to appear on the phone display. Set the "Phone Number" field and the "Caller ID" to the extension number you want to associate with this phone

Set the "Authentication Name" field to the extension's Authentication ID

Set the "Password" field to the extension's Password

2) In the "Basic SIP Network Settings" section:

Basic SIP Network Settings	
Proxy Server	192.168.5.150
Proxy Port	5060
Backup Proxy Server	
Backup Proxy Port	0
Outbound Proxy Server	
Outbound Proxy Port	0
Registrar Server	192.168.5.150
Registrar Port	5060
Backup Registrar Server	
Backup Registrar Port	0
Registration Period	120
Conference Server URI	

Set the "Proxy Server" field and the "Registrar Server" field to the IP of the server where the Zycoo SIP Server System is installed.

Set the "Proxy Port" field and the "Registrar Port" field to 5060(the default)

3) Go to the "Global SIP" page and scroll down to the "Directed Call Pickup Settings" section:

Directed Call Pickup Settings	
Directed Call Pickup	<input checked="" type="checkbox"/> Enabled
Directed Call Pickup by Prefix	<input type="text" value="*8"/>
Play a Ring Splash	<input type="checkbox"/> Enabled

## Tiptel

1. Start up the phone and identify its IP address-press the OK key on the phone to get the Information. For this example the IP address of the phone is 192.168.5.126, and IP address of Zycoo SIP Server is 192.168.5.150.

2. Point your browser to the web interface of the phone: <http://192.168.5.126>

3. Enter the phone's login username (default "admin") and password (default "admin").

## SIP Account Basic Settings

Account ?

Account	Account 1 ((empty))	(empty)
Register status	unknown	

4. Click on the "Account" tab

5. We now need to set the phone to register with Zycoo SIP Server. Ensure that the "Account" field is set to "Account 1", and in the "Basic" section, configure as follows:

## SIP Account Basic Settings

Account ?

Account	Account 1 (500 - registered)	500
Register status	registered	<a href="#">reregister</a>
Active	Enabled	
Label	500	<span>?</span>
Display name	500	<span>?</span>
Register name	500	<span>?</span>
User name	500	<span>?</span>
Password	*****	<span>?</span>
SIP server	192.168.5.150	Port: 5060 1.. 65535
Fallback SIP server		Port: 1.. 65535
SIP server realm	*	<span>?</span>
Enable Outbound Proxy Server	Disabled	
Register use Proxy Server	Disabled	
Outbound Proxy Server		Port: 5060 1.. 65535
Transport (outgoing messages)	UDP	
SRTP security	off (RTP)	
Voice mail		<span>?</span>

[Confirm](#) [Cancel](#)

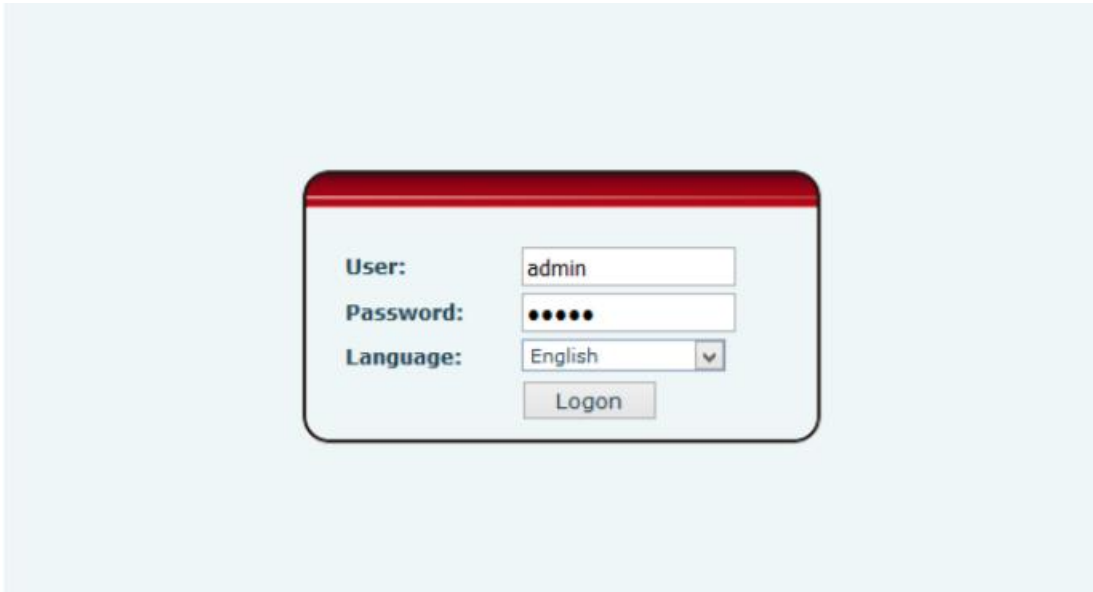
1) Set the "Active" field to "Enabled".

2) Set the "Label" field to the name you want to appear on the Phone display.

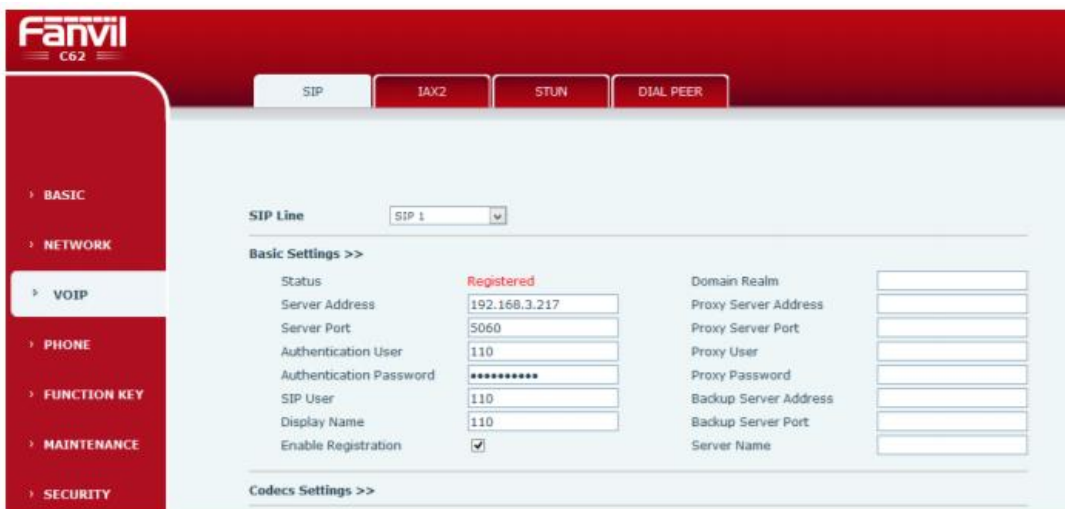
- 3) Set the "Display Name" field to the name you want to appear on another phone's display when calling other phones.
- 4) Set the "Register Name" field to the extension number you want to associate with this phone.
- 5) Set the "User Name" field to the extension's Authentication ID.
- 6) Set the "Password" field to the extension's Authentication Password.
- 7) Set the "SIP Server" field to the IP Address of Zycoo SIP Server, in this example, 192.168.5.150.
- 8) Set the SIP Server "Port" field to the SIP Port of Zycoo SIP Server (default "5060").
- 9) Click the "Confirm" button at the bottom of the page. The phone will now register with Zycoo SIP Server. This can be verified via the "Status" page of Zycoo SIP Server Management Console.

## Fanvil

1. Start up the phone and identify its IP Address by pressing Menu->Status on the phone, and you will find IP address of the phone. In this guide we will assume the IP Address of the phone is 192.168.3.219, and IP Address of Zycoo SIP Server is 192.168.3.217.
2. Start the browser on PC. In the address bar, enter the IP address of the phone: <http://192.168.3.219>.
3. Enter the phone's login username (default "admin") and password (default "admin")



Click “VoIP” tab on the left-hand navigation, then click “SIP” tab, choose “SIP 1”, configure the account as below:

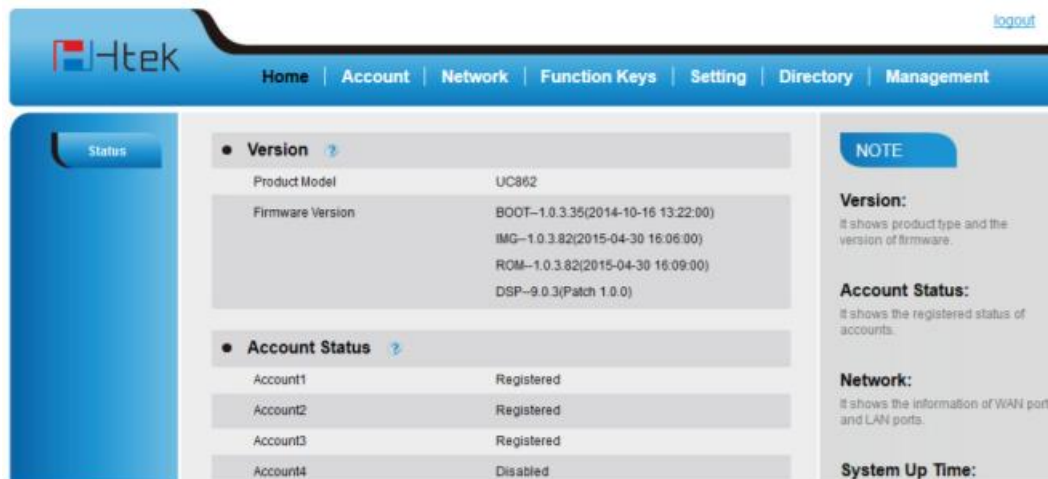


- 1) Status: showing the SIP account status.
- 2) Server Address: enter the IP address of Zycoo SIP Server, in this guide is 192.168.3.217.
- 3) Server Port: enter the default SIP port of Zycoo SIP Server, 5060.
- 4) Authentication User: the extension number which you want to register.
- 5) Authentication Password: enter the password of the extension.
- 6) SIP User: the extension number which you want to register.
- 7) Display Name: the name showing on the phone LCD.
- 8) Enable Registration: checked.

Click “Apply” to save the configuration. You will see the status “Registered” if the account is successfully registered to Zycoo SIP Server.

## Htek

1. Start up the phone and identify its IP Address by pressing Menu->Status->Network on the phone, and you will find IP address of the phone. In this guide we will assume the IP address of the phone is 192.168.6.125 and IP address of Zycoo SIP Server is 192.168.6.126.
2. Start the browser on PC. In the address bar, enter the IP address of the phone: <http://192.168.6.125>.
3. Enter the phone's login username (default "admin") and password (default "admin").



We now need to set SIP phone to register with Zycoo SIP Server. Click “Account” tab, choose “Account 1”, configure as below:



The screenshot displays the Htek web interface for configuring a SIP account. The top navigation bar includes 'Home', 'Account', 'Network', 'Function Keys', 'Setting', and 'Dire'. On the left, there are tabs for 'Basic', 'Codec', and 'Advanced'. The main content area shows the 'Account' configuration page for 'Account 1'. The 'Account Status' is 'Registered'. The 'Account Active' checkbox is checked. The 'Primary SIP Server' is set to '192.168.6.126'. The 'SIP Transport' is set to 'UDP'. The 'NAT Traversal' is set to 'No, but send keep alive'. The 'Label' is 'catherine'. The 'SIP User ID' is '100'. The 'Authenticate ID' is '100'. The 'Authenticate Password' is masked with dots. The 'Name' is 'catherine'. Two red boxes highlight the 'Account Active' and 'Primary SIP Server' fields, and another red box highlights the 'SIP Transport', 'NAT Traversal', 'Label', 'SIP User ID', 'Authenticate ID', 'Authenticate Password', and 'Name' fields.

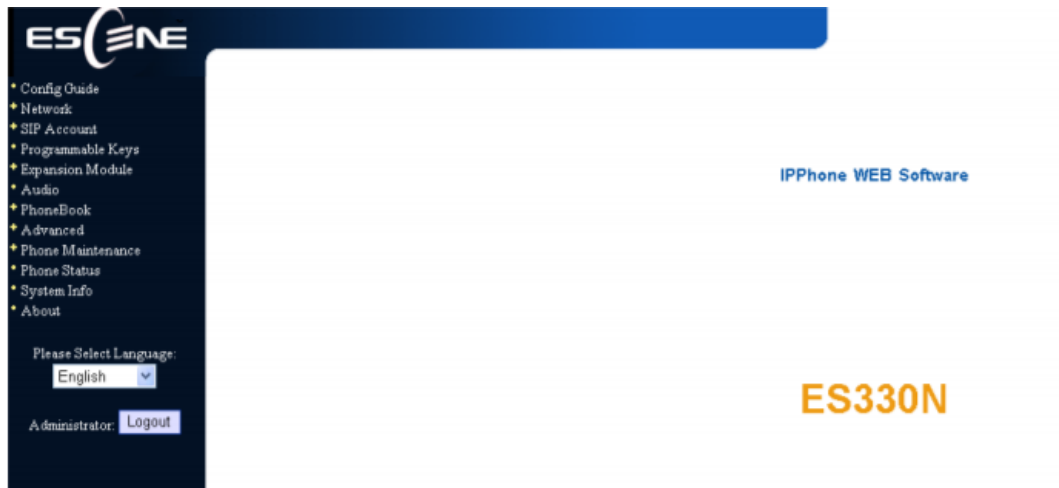
<b>Account</b>	Account 1
Account Status	Registered
* Account Active	<input type="radio"/> No <input checked="" type="radio"/> Yes
* Primary SIP Server	192.168.6.126
Failover SIP Server	
Second Failover SipServer	
Prefer Primary SIP Server	<input checked="" type="radio"/> No <input type="radio"/> Yes
Outbound Proxy	
Backup Outbound Proxy	
* SIP Transport	<input checked="" type="radio"/> UDP <input type="radio"/> TCP <input type="radio"/> TLS
NAT Traversal	<input type="radio"/> No <input checked="" type="radio"/> No, but send keep alive <input type="radio"/> STUN
Label	catherine
* SIP User ID	100
* Authenticate ID	100
* Authenticate Password	••••••••
Name	catherine

- 1) Account Active: choose “Yes”.
  - 2) Primary SIP Server: enter the IP address of Zycoo SIP Server, 192.168.6.126.
  - 3) SIP Transport: choose “UDP”.
  - 4) Label: the name showing on the LCD of Htek phone.
  - 5) SIP User ID: the extension number which you want to register, in this guide is 100.
  - 6) Authentication ID: the extension number which you want to register, in this guide is 100.
  - 7) Authentication Password: enter the password of the extension.
  - 8) Name: the local phone name showing on the other phone when calling.
- Click “SaveSet”, you will see the Account Status “Registered” if the account is successfully registered to Zycoo SIP Server.

## Escene

NOTE: In this guide, the IP of the IP phone is 192.168.5.6; the IP of Zycoo SIP Server is 192.168.5.151.

1. Start the browser on PC. In the address bar, enter the IP address of the phone:  
`http://192.168.5.6`.
2. Enter the phone's login username (default "root") and password (default root)



3. Click on the "Sip Account" tab, chose the account you want to register.
4. Chose Account1 to edit, click on "Account1". The setting page of SIP is shown in Figure2.

The screenshot shows the configuration page for 'Account1' under the 'SIP' section. The fields are as follows:

- Enable:
- Account Mode: VOIP (dropdown)
- Display Name: 520
- Username: 520 \*
- Authenticate Name: 520
- Password: •••••••• \*
- Label: 520
- SIP Server: 192.168.5.151
- Secondary server: (empty)
- OutboundProxy Server: (empty)
- Secondary OutboundProxy Server: (empty)
- Polling Interval Time Of Registration: 32 s Default Value : 32s , Range : 20s--60s
- NAT Traversal: Disable (dropdown)
- STUN Server: (empty)
- BLA:  off  on
- BLA Number: (empty)
- Register Method:  SIP  TEL
- Subscribe Period: 1800 Default: 1800s, Min: 120s
- Register Expire Time: 40 Default: 3600s, Min: 40s
- DNS-SRV:  off  on
- SIP Transport:  UDP  TCP  TLS

- 1) Enable: check the box to activate the account.
  - 2) Account Mode: VOIP
  - 3) Display Name: set a display name of the extension according as you prefer
  - 4) User Name: same as the extension's number in general, such as 520
  - 5) Authenticate Name: same as the extension's number in general, such as 520
  - 6) Password: set the "Password" field to the extension's Authentication password
  - 7) Label: set the "Label" field to the name you want to appear on the Escene IP Phone
- Configuration Guide 4/9 Phone display
- 8) Sip Sever: set the "Sip Sever" field to the IP Address of the Zycoo SIP Server server – in this example, 192.168.5.151

9) NAT Traversal: the default setting is Disable, if you want to configure the phone as a remote extension ,you should chose STUN, then enter a correct address in the field of “ STUN Sever”

10) BLA: off

11) Register Method: chose the method corresponding to the Account Mode

12) DNS-SRV: off

13) Sip Transport: UDP

Click the button “Submit” and the phone will register with your Zycoo SIP Server.

This can be verified via “Status” page of Zycoo SIP Server management console.

**Mr.Chen**

**20210512**