# Yealink IP Phone Configuration Guides

Yeastar Technology Co., Ltd.



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# Yealink IP phone Configuration Guides

Manually Configuring a Yealink T12, T18, T18P, T20, T20P, T22, T22P, T26, T26P, T28, T28P, T32G, T38G, VP530, VP-2009 for MyPBX

### Important:

This guide has been tested for Yealink T12, T18, T18P, T20, T20P, T22, T22P, T26, T26P, T28, T28P, T32G, T38G, VP530, VP-2009 with firmware version X.70.0.60, Be aware that different firmware revisions may have different web interface formats and functionality.

The preferred method to configure a Yealink T2X Phone is via Provisioning. You can however follow this guide to manually configure your phone.

# **Register with MyPBX manually**

- 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 192.168.5.126, and IP Address of MyPBX 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").

	Status	Account	Network	Phone	Contacts	Upgrade
Account			Accour	it 1 💌		

Figure 1-1

- 4. Click on the "Account" tab
- We now need to set the phone to register with MyPBX. Ensure that the "Account" field is set to "Account 1", and in the "Basic" section, configure as follows:



Account		Account 1
Basic >>		
	Register Status	Registered
	Account Active	© On C Off
	Label	500
	Display Name	500
	Register Name	500
	User Name	500
	Password	•••••
	SIP Server	192.168.5.150 Port 5060 🕜
	Enable Outbound Proxy Server	Disabled 💌 🕜
	Outbound Proxy Server	Port 5060
	Transport	UDP 💌
	Backup Outbound Proxy Server	Port 5060
	NAT Traversal	Disabled 💌 🕜
	STUN Server	Port 3478
	Voice Mail	*2
	Proxy Require	0
	Anonymous Call	Off 💌
	On Code	



- 1) Set the "Account Active" field to "On"
- 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 MyPBX in this example, 192.168.5.150.
- 8) Set the SIP Server "Port" field to the SIP Port of MyPBX (default "5060")
- 9) Ensure the "NAT Traversal" field is set to "Disabled"



 Next, we need to configure the audio codecs. Scroll down to the end of the "Basic" section, and expand the "Codecs" section. Ensure that the "Enable codecs" list box contains first "PCMU", then "PCMA", and finally "G729"

Basic >>				
Codecs >>				
	Disable codecs	3	Enable codecs	×
	G723_63 G722 G726-16 G726-24	>>	PCMA G729	1
	G726-32 G726-40	**		1
		4		ы

Figure 1-3

- We also need to configure the phone to subscribe for MWI and BLF notifications. Scroll down to the end of the "Codecs" section, and expand the "Advanced" section:
  - 1) Set the "Subscribe Register" field to "Enabled"
  - 2) Set the "Subscribe for MWI" field to "Enabled"

Subscribe Register	Enabled	•
Subscribe for MWI	Enabled	-

Fig	ure	1-4

8. Click the "Confirm" button at the bottom of the page. The phone will now register with MyPBX. This can be verified via the "Status" page of MyPBX Management Console.



# **Configuring BLF on Yealink**

#### Configuring BLF on the Yealink T26 and T28 Memory Keys (Optional)

#### Note:

1. The Yealink T22 and the Yealink T20 do not have Memory Keys and therefore do not have BLF functionality.

2. Only PSTN and GSM trunk are allowed to be monitored currently in MyPBX

3. Please choose the right line number, make sure you have chosen the right one, which is register to MyPBX

4. When configure it to monitor the status of trunk, we can press it to get a dial tone before dialing out. Which is working for PSTN trunk only currently.

You can also manually configure the Yealink T26 and T28 Memory Keys to monitor the status of other extensions or trunks on the system.

- 1. Click on the "Phone" tab, and then select the "DSS Key" page.
- 2. For each button you would like to configure, configure an extension to be monitored by configuring the "DSS Key 1" row (for example) as follows:

Yea	link						
6354	VOP	Status	Account	Network	Phone	Contacts	Up
	Preference	Features S	oftkey Layout 📔 🛙	SS Keys EXT Key	Action URL	Voice Ring	Tones
	Memo	ory Keys >> (	)				
	Key	Туре		Value	Line	Extension	ı
	DSS Key 1	BLF	▼ 500		Line 1	▼ *04500	
	DSS Key 2	BLF	<ul><li>▼ 501</li></ul>		Line 1	• *04501	
	DSS Key 3	BLF	▼ pstn1		Line 1	•	
	DSS Key 4	N/A	•		Auto	<b>_</b>	

Figure2-1

- 1) Set the "Type" field to "BLF"
- Set the "Line" field to "Line 1" (Assume that account 1 is registered to MyPBX)
- Set the "Value" field to the extension number or trunk name to be monitored (for example 500 or pstn1)
- 4) Set the "Extension" field to the dial sequence for picking up calls to the



extension number to be monitored (in this example "\*04500") If you set to monitor the trunk, just keep this field blank.

3. Click the "Confirm" button at the bottom of the page. Your phone will now re-register with MyPBX with the monitoring settings enabled.



# **Provisioning for MyPBX**

Provisioning a Yealink T12, T18, T18P, T20, T20P, T22, T22P, T26, T26P, T28, T28P, T32G, T38G, VP530, VP-2009 for MyPBX

This guide has been tested for Yealink T18, T18P, T20, T20P, T22, T22P, T26, T26P, T28, T28P, T32G, T38G with firmware version X.70.0.60.

The easiest way to set up a Yealink phone for use with MyPBX is to use the built-in plug and play provisioning functionality inside MyPBX. This will allow the phone to configure itself by retrieving a generated phone configuration file. Alternatively you can configure using DHCP and option. For more information, see this configuration guide.

#### **1. Verify Firmware Installed on your Phone**

Verify the firmware version currently installed on the phone as older firmware will not have the plug and play feature. You can power up the phone and press "Menu > Status > Firmware" to check. Go to Yealink Support Website to download the latest firmware for your phone.

#### 2. Plug phone into the network

Plug your Yealink phone into your LAN. (The Phone must be on the same LAN as that of MyPBX IP PBX).

#### 3. Approve phone and Assign an Extension

To do provisioning with Yealink IP phones, you can choose PnP mode or DHCP mode. When you phone provisioning via PnP mode, there is no need to set MyPBX working as the only DHCP server any more.



### 3.1 Phone provisioning via PnP mode

**Step1.** Check if PNP is enabled in IP phone side Here is an example of Yealink T28 Click upgrade—advanced to check the details

Yealink							<u>Logout</u>
Easy Vop	Status	Account	Network	Phone	Contacts	Upgrade	Security
			Basic A	dvanced			
	DHCP Act Custom C DHCP Op Provisioni User Nam Password Common MAC-Orie Zero Tou Wait Tim PNP Check Ne Auto Prov	tive Dption(128 ~ 254) Dption Type tion 60 ng Server le AES Key nted AES Key ch e(seconds) w Config wision Now Export Config	Enabled String yealnk 		⑦	NOTE Custo Specifyou you w provisi Provisi about AES IK It is provisi Click ti provisi Click ti provisi Click ti provisi Click ti provisi Configure Expor Configure configure the see all the Systee There export or Ser	m Option y the DHCP Option that ant to use for oning. Refer to Auto on Manual for details provisioning. Sey ovided by ISP. this button to auto on immediately his button to auto on immediately. t/Import gExport the uraion files to backup ttings, and could import settings after reset. m Log are two methods to t the system log, Local ver.
			Figu	ure 3-1			

Step2. Check MAC address of your yealink IP Phone on status page.

Yealink								
Easy Vop	Status	Account	Network	Phone	Contacts	Upgrade	Security	
	Ver Net	sion ? Firmware Version Hardware Version twork ? Internet Port Type IP Address Subnet Mask MAC Address Link Status Router IP Address Device Type Router DHCP pister Status	2.70.0.60 1.0.0.4 Static IP 192.168.4.7 255.255.25 00-15-65-11 Connected 0.0.0.0 Bridge Disabled	71 4.0 <b>F-0E-56</b>		NOTE Versio It shov firmwa Netwo It shov WAN p	n vs the version of re. ork vs the information of ort and LAN port.	

Figure 3-2

Step3. Reboot IP phone.

Logout



**Step3.** Search MAC address you would like configure on the "phone provisioning" $\rightarrow$ "Not Configured Phone" page

<b>My</b> PBX	Embedded Hybrid IP-PB)	X for Small Businesses		Logout
	Phone Provisioning \$\$			
Line Status		F	Phone Provisioning	
Basic 🙁	General Settings for Yealing	nk		
Extensions Trunks Outbound Routes	General Settings for Aastra	<u>a</u>		
Phone Provisioning	Phone Book			
Inbound Call Control 💲	Configured Phone     Add Phone     Add Bulk	Phones 🛛 🏠 Configure the S	elected Phones	Selected Phones
Queues Queters Decembra	D MAC Addres	s Manufacturer	Phone Type Name	e Extension Enabled
Custom Prompts Ring Groups Inbound Routes Blacklist	Not Configured Phone	ones Refresh		
Internal Cattings	📕 ID	MAC Address	Manufacturer	Phone Type
Ontions	<b></b> 1	001565113844	Yealink	-
Business Hours	2	001565114094	Yealink	
Feature Codes	3	0015651be4a4	Yealink	

Figure 3-3

In this case, the MAC address of yealink IP phone is 0015651f0e56

43	<u>001565151252</u>	Yealink	
44	0015653945e2	Yealink	
45	0015652c4736	Yealink	
46	0015651f0e56	Yealink	T28
47	00156523db6a	Yealink	
40	0015651129-0	Veolink	

Figure 3-4

Fill in the phone detail message on the pop-up windows.

Input Name, Call waiting, Line, Extension, Label, Line active and so on for the phone.

Note: If the version of Yealink IP phone is higher than X.70.0.XX, please choose 'Yes' for 'New config' field. If you use the old version, there's need to enable this option.



eneral Enabled					
Enabled					
	Yes	*	NewConfig	Yes	~
MAC Address	0015651f0e56		Name:	Jane	
Manufacturer	Yealink	~	Phone Type:	T28	*
Call Waiting:	Enabled	*	Key As Send:	#	*
Auto Redial	Disabled	*	Auto Answer:	Disabled	~
Phone Book	Enabled	*			
line					
✓ Line1	Extension: 500	~	Label: 500	Li	ne Active: 🔽
Line2	Extension:	~	Label:	Li	ne Active: 📕
Line3	Extension:	~	Label:	Li	ne Active: 📕
Line4	Extension:	~	Label:	Li	ne Active: 📕
Line5	Extension:	~	Label:	Li	ne Active: 📕
Line6	Extension:	~	Label:	Li	ne Active: 🗖

**Step4.** Save the settings and reboot the IP phone. After you save the changes, system will prompt you to save the changes and reboot to save changes without rebooting. Click OK to reboot the IP phone and provisioning the phone.

Are you sure to reboot the phone now? Click 'OK' to save the changes and reboot; click 'Cancel without rebooting.	' to save the changes
	OK Cancel

Figure 3-6

Then IP phone will reboot twice to apply the configurations take effect, when done, you can find the account 500 is registered in MyPBX's line status page and Yealink IP phone's status page.



### **3.2 Phone provisioning via DHCP mode**

**Step1.** Disable DHCP Server on your local network. E.g. Disable DHCP Server on Linksys Router.

LINKSYS <sup>®</sup> A Division of Cisco Systems, Inc.						Firmware Version: 1.04.08		
		Etherfast® Cable/DSL Router BEFSR41						
Setup	Setup S	Security	Applications & Gaming	Administratio	on Status			
	Basic Setup	DDNS	MAC Addre	ess Clone	Advanced Routing			
Internet Setun					Ba	sic Setup		
Internet Connection Type	Obtain an IP au	tomatically 🗸			The	Basic Setup screen is		
Optional Settings (required by some ISPs)	Host Name:				perfo Serv	ormed. Some ISPs (Internet ice Providers) will require		
	Domain Name: MTU:	C Enable	Disable Size: 19	500	inform be of you h	wou enter the DNS mation. These settings can btained from your ISP. After have configured these		
Network Setup					pass	igs, you should set a router word from the		
Router IP	Local IP Address:	192,168	. 1 . 1		Admi	<i>inistration-&gt;Management</i> en.		
	Subnet Mask:	255.255.2	55.0 💌		Comp	pleting the Internet Setup		
Network Address Server Settings (DHCP)	Local DHCP Server	🗆 🔿 Enable 🧿	Disable		set u Pleas	on is all that is required to p for your specific ISP. se look at the table below to		
	Start IP Address:	<b>192.168.1.</b> 1	00		confi	igure the Router for your		
	Number of Address:	50						
	DHCP Address Range:	192.168.1.100	to 192.168.1.149		More	<u>e</u>		
	Client Lease Time:	0 minu	utes (0 means one da	iy)				
	Static DNS 1:	0.0	. 0 . 0					
	Static DNS 2:	0.0	. 0 . 0					
	Static DNS 3:	0.0	. 0 . 0					
	WINS:	0.0	.0.0					
						CISCO SYSTEMS		
			Save Settings	Cancel Ch	anges	aulliu		

Figure 3-7



**Step2.** Enable DHCP Server on MyPBX.

Login MyPBX web interface, System Settings  $\rightarrow$  DHCP Server  $\rightarrow$  Enable DHCP Server.

<b>My</b> PBX	Embedded Hybrid IP-PBX for Small Businesses					
Status Honitor 💐	DHCP Server 4					
Inbound Call Control	DHCP Server					
Internal Settings 🛎	DHCP is running					
Hetwork Settings 🖄	V bnable					
LAN Settings WAN Settings	Router : 192.168.5.1					
Static Route	Subnet Mask : 255.255.0					
Firewall DHCP Server	Primary DNS : 192.168.5.1					
VLAN Settings VPN Settings	Secondary DNS :					
DDNS Settings						
System Settings 🛛 😵	Allow IF Address From: 192.108.5.2					
Reports 😵	To: 192.168.5.254					
	TFTP Server 0: tftp://192.168.5.150					
Yeastar	NTP Server:					
-	Save X Cancel					

Figure 3-8

**Step3.** Configure phones on MyPBX Auto-Provision page.

1. Login MyPBX web interface, Basic  $\rightarrow$  Auto Provision  $\rightarrow$  Create New Phone.



Figure 3-9

2. Fill in the phone detail message on the pop-up windows.

Input IP Phone's MAC address, configure Name, Call waiting, Line, Extension, Label, Line active and so on for the phone.

Note: If the version of Yealink IP phone is higher than X.70.0.XX, please choose 'Yes' for 'New config' field. If you use the old version, there's need to enable this option.



Add Pho	one						Х			
Gen	neral						_			
	Enabled:	Yes	*	NewConfig	Yes	~				
	MAC Address:	0015651f0e56		Name:	jane					
	Manufacturer:	Yealink	*	Phone Type:	T28	~				
	Call Waiting:	Enabled	*	Key As Send:	#	*				
	Auto Redial:	Disabled	*	Auto Answer:	Disabled	~				
	Phone Book:	Enabled	*							
C Line										
	Line1 E	xtension: 500	*	Label: 500		Line Active: 🔽				
Γ	Line2 E	xtension:	~	Label:		Line Active: 🔽				
	Line3 E	xtension:	~	Label:		Line Active: 📕				
	Line4 E	xtension:	~	Label:		Line Active:				
	Line5 E	xtension:	~	Label:		Line Active:				
	Line6 E	xtension:	~	Label:		Line Active: 📕				
C Aud	lio Codec						_			
C As General										
	Custom									
	Disable Codecs			Enable Codecs						
	G723_53			»» PCMA						

Figure 3-10

**Step4.** Save the settings and reboot the IP phone. After you save the changes, system will prompt you to save the changes and reboot to save changes without rebooting. Click OK to reboot the IP phone and provisioning the phone.

Are you sure to reboot the phone now? Click 'OK' to save the changes and reboot; click 'Cancel' to save the changes without rebooting.

Figure 3-11



**Remark**: The factory default setting of DHCP for IP Phone is "enable", so you can skip this step to step 5.

If the DHCP is disabled, please follow below step to enable it. (e.g.: Yealink's IP Phone).

- 1. Login IP phone's web page.
- 2. Enable DHCP.

Yealink								
Easy vop	Status	Account	Network	Phone	Contacts	Upgrade	Security	
		Internet I	Port (WAN)	PC Port	Advanced			
	C DH C Sta Sul De Prir Sea C PP Use Pas	CP Address Address onet Mask fault Gateway nary DNS condary DNS er sword Confirm		Cancel		NOTE DHCP The diaddress server Static Set the Mask, I address Secondress Sec	evice will acquire its I s from the DHCP automatically. <b>IP Address</b> Be IP address, Subnet Default Router IP s, Primary DNS, dary DNS fields lly. E titing provide by DSL	P t

Figure 3-12

Then IP phone will reboot twice to apply the configurations take effect, when done, you can find the account 500 is registered in MyPBX's line status page and Yealink IP phone's status page.

Step5. Done

<Finish>