



# Configure Yealink IP Phones for 3CX Phone System



Facility Manual





# Contents

1.	Log	in the web management
2.	Con	figure the account
3.	Con	figure the DSS Key as BLF
4.	Con	figure the DSS Key as Intercom5
5.	Hov	v to auto provision
	1)	Use DHCP Option 66 to update firmware massively via HTTP
	2)	Configure the phone for update check when powering on
Арр	endi	x
	1.	Default Basic Dial Code on 3CX Phone System
	2.	Use DHCP Option 66 to update firmware massively via FTP
	3.	Use DHCP Option 66 to update firmware massively via TFTP

# Configure Yealink IP Phones for 3CX Phone System

This document is going to show you how to configure a Yealink phone to work with 3CX Phone System.

Note 1: The model we are using in this document is Yealink SIP-T28, and all the screen shots are based on its firmware version 2.41.0.60. There might be some difference between different models or firmware versions

#### 1. Log in the web management







<ul> <li>http://10.1.4.</li> </ul>	126/cgi-bin/Config	ManApp.com?Id=1			~	47 🗙	Live Search	
🌔 IP Phone							• 🔊 -	🖶 🔹 🔂 Page 🔹 🌾
aliak								
	Status	Account	Network	Phone	Contacts	Up	grade	Security
		arcian					NOTE	
	v	Eirmware Version	2 41 0 60				Versio	on
		Hardware Version	1.0.0.1				It show firmwa	ws the version of ire.
	Ne	twork	1.0.0.1					
		WAN Port Type	AutoConfiau	ration Via DHCP			Netwo	ork
		WAN IP Address	10.1.4.126				It show about	ws the information WAN port and LAN
		Subnet Mask	255.255.255	5.0			port.	
		MAC Address	00-15-65-11	-30-68				
		Link Status	Connected					
		PC IP Address	0.0.0.0					
		Device Type	Bridge					
		DHCP Server Status(PC)	Disabled					
		DHCP Server Status(PC)	Disabled					

# 2. Configure the account







Yealink – 3CX corresponding table for account settings:

Yealink	3CX
Register Name	Authentication ID
User Name	Extension Number
Password	Authentication Password
Voice Mail	VMail

After the above settings, Line 1 (Account1) must be available to make calls.

Note 2: If the SIP server is behind a NAT, you should enable "NAT Traversal" as "STUN" and then specify a STUN Server. For more details about STUN, please refer to <a href="http://www.voip-info.org/wiki/view/STUN">http://www.voip-info.org/wiki/view/STUN</a>. To know about NAT, you could refer to <a href="http://www.voip-info.org/wiki/view/NAT+and+VOIP">http://www.voip-info.org/wiki/view/STUN</a>. To know

### 3. Configure the DSS Key as BLF

Yealink	2) Select	DSS Key					
Sta	atus	Account	Network	Phone	Contacts	Upgrade	Security
Memory Key	ce   Features	DSS Key	EXI Key	Voice   Ring	Tones   Dia	ai Pian   SMS	
Кеу	Туре	Mode	Line	Extension	Directly Number	Key T The fi	<b>ype</b> ree function key
DSS Key 1	BLF 🔽	Conference	V Line 1	▶ 102	*20*	'Type Key E	s' Speed Dial, BLF, vent, Intercom,
DSS Ker	V/A 💙	Conference	Line 1			URL.	
3 Select BLF	TA (4	Conference Select t	Line 1			6 Picl	kup code
DSS Key 5	V/A	right line	e 🦯			featur	e must be rted by the sin
DSS Key 6	V/A	Comercinee	Line 1	Y		server	
DSS Key 7	N/A 💌	Conference	Line 1	5 Exte	nsion numbe	r 🔨	vent ents are
DSS Key 8	V/A 💙	Conference	Line 1			phone	fined shortcuts to and call
DSS Key 9	V/A 💌	Conference	Line 1			functi	ons.
DSS Key 10 M	¶/A ♥	Conference	Line 1	Cancel		Enable mode office quick to the secret URL	com a the 'Intercom' and is useful in an environment as a access to connect e operator or the rary.
						you to reque server	ssend HTTP sts to a web

After the above settings, DSS Key1 is ready as BLF for Line 1 (Account1), monitoring extension 102.





## 4. Configure the DSS Key as Intercom



After the above settings, DSS Key3 will work as an Intercom key with extension 102.

#### 5. How to auto provision

#### 1) Use DHCP Option 66 to update firmware massively via HTTP

In this way, there's no need to configure at the phones.

① Specify an address(TFTP) for Option 66 in your DHCP Server

🖅 IS option 66	
192.168.0.231	
Expression	
Build	in Option 66
<u>QK</u> <u>Cancel</u> <u>Advanced</u> >>	

2 Prepare a CFG file as below

alink		<b>3</b> CX
<pre>[ firmware ] path = /tmp/download. server_type = http server_port = 80 http_url = http://ww firmware_name = 2.2.0 ③ For T28, name the CF0 For T26, name the CF0 For T20, name the CF0 For T20, name the CF0 ④ Put the firmware to the fir</pre>	efg w.xxxx.com/AP/ 0.0.rom 6 file by y000000000 6 file by y000000000 6 file by y000000000 6 file by y000000000 9 HTTP Server 8 Server 2.3 bet 9 jou are in Easy mod /www.xxxx.com/AP	HTTP Server TFTP Server address in Option 66 Firmware name 000.cfg and put it to 004.cfg and put it to 005.cfg and put it to 005.cfg and put it to 007.cfg and put it to TFTP server 007.cfg and put it to TFTP server TFTP server TFTP server TFTP server TFTP server TFTP server
IP address	File	Status

 $\ensuremath{\textcircled{5}}$  Power on the phones and they will download and update the firmware via HTTP

## 2) Configure the phone for update check when powering on

# Yealink

Yealink	tatur Account	Notwork Dhone	Contacta	Ilparado Soqurity	1
	Custom Option Custom Option Type URL Account Password Specified AES Key Per-phone AES Key PNP config Check New Config Check New Config Click here to Autoprovision Now Export / Import Config Export System Log	Network     Phone       Basic       Advance       (128 ~ 254)       String         String       http://www.xxxx.com/AP         Disabled         Disabled         Power on         Autoprovision         Import         Export         Local         Export         Cancel	ed Provis Select Po	Upgrade         Security           sioning server         Custom Option           The phone will first use the custom option if present or use Option 66,43 if the custom option is not present. I the DHCP server sends when the babot wer on         The phone will first use the custom option is not present. I the DHCP server sends           Wer on         Tes from UR ded by ISP.           Click here to Autoprovision New Click this button to aut provision immediately.           Export/Import Configuration files to backup the settings, are could import all the settings after reset.           System Log There have two method to restore the syslog, syslog or local device.	f L d d

The provisioning server must contain the CFG files. After the above settings, every time when power on, the phone will download the CFG files from *http://www.xxxx.com/AP* automatically.





# Appendix

#### 1. Default Basic Dial Code on 3CX Phone System

Voice Mail (VMail)	*4 or 999
Pickup a call	*20*
Intercom	*9

#### 2. Use DHCP Option 66 to update firmware massively via FTP

- In this way, there's no need to configure at the phones.
- ① Specify an address(TFTP) for Option 66 in your DHCP Server



- ④ Put the firmware to the FTP Server
- ⑤ Power on the phones and they will download and update the firmware via FTP

#### 3. Use DHCP Option 66 to update firmware massively via TFTP

In this way, there's no need to configure at the phones.

① Specify an address(TFTP) for Option 66 in your DHCP Server

# Yealink



⑤ Power on the phones and they will download and update the firmware via TFTP