

# Configuration Guide for Yealink IP Phone & Epygi PBX



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#### **1.Requirements and Preparation**

- Software image 5.1.x or higher running on the Quadro2x/4x/16x.
- Software image x.42.x.x or higher running on the Yealink IP Phone.

## 2. Configure Yealink IP Phone

#### 2.1 Login to WEB management





#### 2.2 Configure the Account Settings

alink			(1) Selec	et "Account"	
asy vop-	Status Account 🦛	ecwork Pho	one Cor	ntacts Up de	Security
				Select one Account	
Account		Account 1		Select one Account	
				Display N	amo
Basic >>				SIP service	subscribe
	Register Status	Registered		(a) A ative A account	
	Account Active	• On Ci	Off	S Active Account	
	Label	100		SIP service used for au	subscribe uthenticat
	Display Name	100	_	User Name	e
	Hear Name	100		User accou	int, provid
	Password			( Fill in these	fields
	SIP Server	192,168,1,199	Port 5060	(4) Fin in these	neius
	Enable Outbound Proxy Server	Disabled	×	Drown Bay	
	Outbound Proxy Server		Port 5060	A special p	arameter j
heck Note	Transport	UDP 💌		login to No	server. If y
$\neg \checkmark$	Backup Outbound Proxy Server		Port 5060	value shou	ld be: I <u>net</u> works.
	NAT Traversal	Disabled	•	(5) Voicemail code	
	STUN Server		Port 3	S voicemail code	
	Voice Mail	*0		Advanced	
	Proxy Require			The Advan	ced paran
	Anonymous Call	Off 💌		tor adminis	trator.
	On Code				
	Off Code				
	Anonymous Call Rejection	Off 💌			
	On Code				
	Off Code				
	Missed call log	Enabled 💌			
	Auto Answer	Disabled 💌			
Codecs >>					
Advanced >	·>				
			1		
	Confirm	Cancel			

After entering the above settings, Account1will be available to make calls.

**Note :** 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 <u>http://www.voip-info.org/wiki/view/STUN</u>. To learn about NAT, you should refer to <u>http://www.voip-info.org/wiki/view/NAT+and+VOIP</u>



#### 2.3 Configure the DSS Key as BLF

					Select "Phone"	
	2 Select "DSS Key	y"	Dha	no Contacte	Ungrada	Security
	Proference   E		Work Price	Ping   Topos	Dial Plan	Security
	Memory Key >>	eaultes Doo key T EAT	raî î Anira î	rang t rones t		
	Key Typ DSS Key 1 BLF DSS Key 1 N/A	e Mode Conference I Lin Conference I	Line Exp e 1 101 1 2 6002	ansion Pickup Numbe	r Key I The fr 'Types Key Ev URL.	<b>/pe</b> ee function key ' Speed Dial, BLF, rent, Intercom,
<	3 Select "BLF" TV/A DSS Key 5 N/A	(4) Select the right line		5 Extension number	6 Pin specifi featur	ed account. This e must be
	DSS Key 6 N/A	Conference 🗾 Line	e 1 🔽		suppor server.	ted by the sip
	DSS Key 7 N/A DSS Key 8 N/A DSS Key 9 N/A	Conference V Lini	e 1 💌		Key E Key ev predet phone functio	<b>vent</b> ents are ined shortcuts to and call ins.
	DSS Key 10 N/A	💌 Canference 🗹 Lin	e 1 🗾 *9315		Intero Enable mode an offi a quick conne or the	om the 'Intercom' and it is useful in ce environment as caccess to ct to the operator secretary.
		Confirm	Cancel		URL This ka you to reques server	ay function allows send HTTP ts to a web

After entering the above settings, DSS Key1 is ready as BLF for Line 1, monitoring Extension 101. When there's an incoming call on 101, DSS Key1 will flash red and you can directly press it to pick up the call.



#### 2.4 Configure the DSS Key as Call Park

					Select "Phone"	,
	② Select "DSS Ke	y"				
	Status	ccount	Network Pho	ie Contacts	Upgrade	Security
	Preference   F	eatures DSS Key E	XT Key   Voice	Ring   Tones	Dial Plan   SMS	
	Memory Key >>					
	Кеу Тур	e Mode	Line Expa	nsion Pickup Numbe	er Key Typ The free 'Turner'	Je e function key Groend Dial, DLS
	DSS Key 1 BLF	💽 Conference 💽 🛛	.ine 1 💌 101	97	Key Eve	nt, Intercom,
	DSS Key 2 KeyEvent	Call Park	.ine 1 🗾 *5		BLF	
	DSS Key 3	Conference	ine 1	$\rightarrow$		ton can be Busy Line
$\langle$	③ Select "KeyEvent"		ine 1	et the	(6) Park code + parking orbit	ith it. This a by the sip
	DSS Key 7 N/A	④ Select     "Call Park"	right	line	Server.	ant Ints are
	DSS Key 8 N/A		ine 1		predefin phone a	ied shortcuts to and call
	DSS Key 9 N/A	Conference 🗾 l	.ine 1 💌		function	6.
	DSS Key 10 N/A	Conference 🗾 🛛	ine 1 🔽 *9315		Interco Enable t mode a an office a quick connect or the s	m he 'Intercom' hd it is useful in a environment as access to to the operator ecretary.
		Confirm	Cancel		URL This key you to s request server.	r function allows iend HTTP s to a web

After entering the above settings, DSS Key2 is ready as Call Park for Line1.

An active call can be parked by pressing DSS Key2 during your conversation.



## 2.5 Configure the DSS Key as Intercom

V	② Select "DSS Key"			① Selec	ct "Phone"
	Status	Account Network	Phone	Contacts	Upgrade Security
	Preference   Featur	es DSS Key EXT Key	Voice Ring	Tones   Dial	Plan   SMS
	Memory Key >>				
	Key Type	Mode     Line       Conference     Image: Line 1	Expansion ID1 Internet	Pickup Number	Key Type The free function key 'Types' Speed Dial, BLF, Key Event, Intercom, URL.
	DSS Key 2 KeyEvent	Conference Line 1 Conference Line 1 Conference Line 1	*5  *80105		BLF The button can be configured Busy Line Field function with
(3) Se	DSS // A	Conference		5 Intercom co + extension	tde specified account. This feature must be sported by the sip river.
	DSS Key 8 N/A	Conference Line 1			regetering are predefined shortcuts to phone and call functions.
	DSS Key 10 N/A	Conference 🗵 Line 1	*9315		Intercom Enable the 'Intercom' mode and it is useful in an office environment as a quick access to connect to the operator or the secretary.
		Confirm	Cancel		URL This key function allows you to send HTTP requests to a web server.

After entering the above settings, DSS Key3 will work as an Intercom key with Line1



## 3. Auto-configure the Yealink Phone by the Epygi Server

Auto-configuration is the recommended setup method.

This section provides step-by-step instructions on configuring IP lines connected to the Quadro LAN. The following steps are detailed below:

#### 3.1 Login to Epygi

Refer to section 4.1

#### **3.2** Configure an Extension

Refer to section 4.2

#### **3.3** Configure the Attached IP line

Login IP Line Settings page (Refer to section 4.3)

Main System	Users Telephony Internet Uplink Network
IP Line \$	Settings - IP Line 1
C Inactive	
SIP Phone	Phone Model:         Yealink SIP-T28P           MAC Address:         00         : 15         : 65         : 11         : 37         : 16
	Jine Appearance:       2         Jsername:       111         Password:       •••         Use Session Timer       Enter MAC Address
	Use template: < use default>    Enable Hot Desking Capability   Hot Desking Automatic Logout:
	Never After hour(s) min At I I I I I I I I I I I I I I I I I I I
Save	Back

Note: Phone Model Yealink SIP-T28 in example, the MAC address of Yealink SIP-T28 bind to IP Line 1, Quadro generates a configuration file and places it in its built-in TFTP server.



#### **3.4 IP Phone Configuration**

The next step in auto-configuration is to notify the IP phone to download its configuration file(s) from the Quadro's TFTP. This means the phone should have the Quadro LAN address as its boot server (TFTP server) address. The configuration varies depending on whether the IP phone is using the Quadro as the DHCP server or not:

**1. The IP phone is using the Quadro as its DHCP server**, it will obtain the basic network parameters from the Quadro. These parameters include also the TFTP server address set to the Quadro LAN address (by default 172.30.0.1). The only required step in this case is to reboot/reset the phone to initiate configuration file download (see figure 5). **note:** This is the recommended configuration for IP phone setup.



**2. The IP phone is using a DHCP server other than the Quadro's built-in DHCP**, the user needs to configure the DHCP server to notify the phone the location of the TFTP server, which is the Quadro. An example of such network configuration is shown in the figure below. Here the LAN of the Quadro, the dedicated DHCP server, and the IP phone are on the same subnet(figure 6).



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#### **3.5** Reset and Restart the Phone to Complete the Automatic Configuration

- Restore the default configuration of the phone by performing a reset.
- Reboot the phone to initiate file download.

After reboot, the account is automatically configured to the phone.

## 4. Configure Epygi

4.1 Login to Epygi

Quadro				
Quadro2x Management				
Info: Your session has timed out! Please log in again! Default Login Username/Password				
Login admin / 19				
Login as an Administrator or Extension.				
Username / Extension: admin				
Password:				
Copyright (C) 2003-2009 <u>Epyrai Technologies, Ltd</u> . All rights reserved.				

### 4.2 Configure an Extension on Epygi

4.2.1 Add an extension





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#### 4.2.2 Attach an Extension to IP Line



**Note:** Percentage of Total Memory setting must be configured, or it will affect the use of voice mail etc.



#### 4.3 Configure IP Line



**Note:** Here the Username and Password is the register Username and Password.



# Appendix

1. Default Basic Dial Code on Epygi System

Voice Mail (VMail)	*0
Call Park	*5
Callpark Retrieve	98
Intercom	*80

# Reference

