

Configuration Guide for Yealink IP Phone & 3CX PBX

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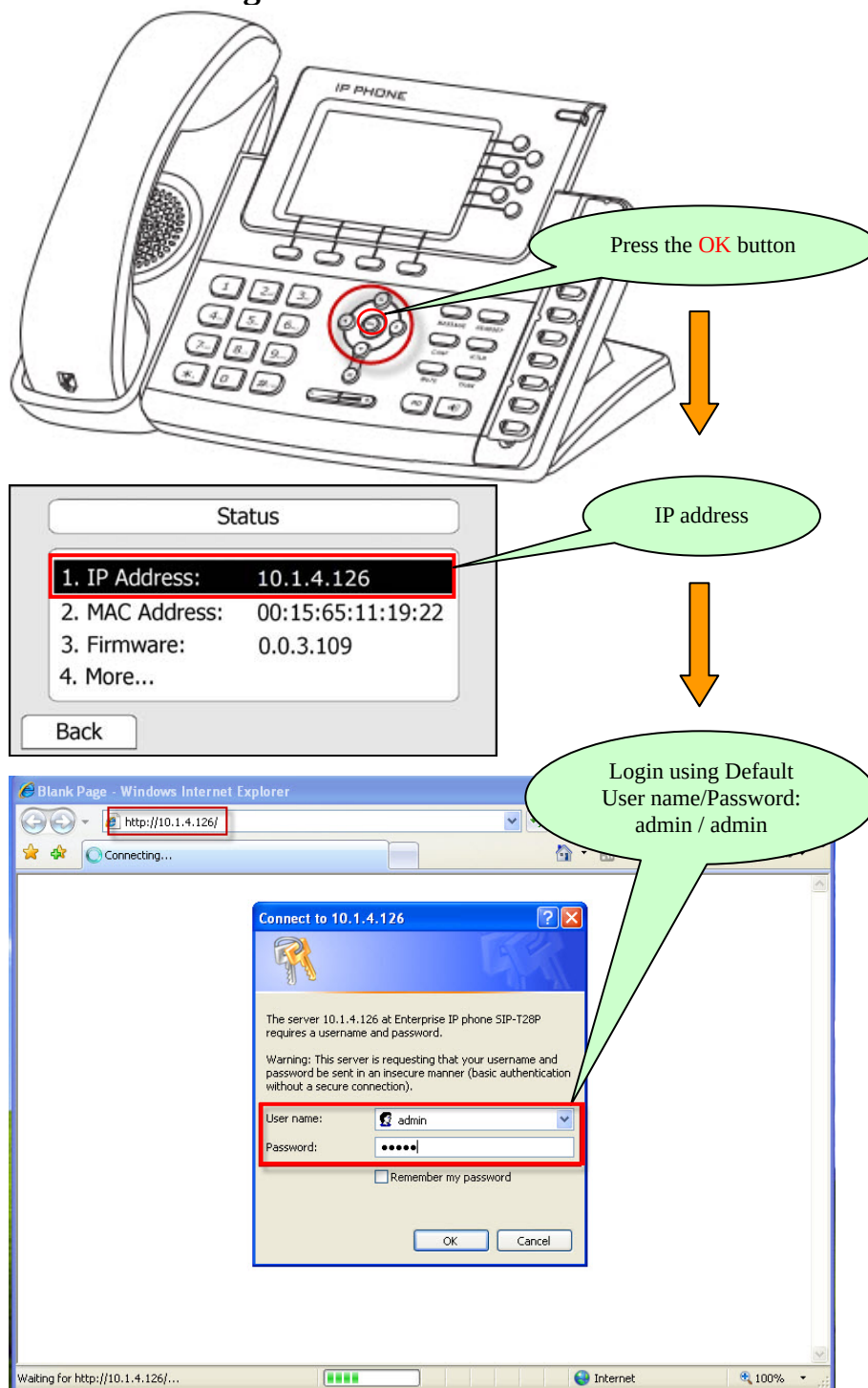
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1. Requirements and Preparation

- Software image v8.0.9532.468 or higher running on 3CX Phone System.
- 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

The screenshot shows the 'Account' configuration page in the Yealink Easy VoIP interface. The 'Account' tab is selected. A dropdown menu shows 'Account 1' selected. The 'Basic >>' section contains various settings. A red box highlights the 'Account Active' checkbox (checked), 'Label' (100), 'Display Name' (100), 'Register Name' (100), 'User Name' (100), 'Password' (masked), and 'SIP Server' (192.168.1.199). A green callout bubble labeled '① Select "Account"' points to the 'Account' tab. Another green callout bubble labeled '② Select one Account' points to the 'Account 1' dropdown. A green callout bubble labeled '③ Active Account' points to the 'Account Active' checkbox. A green callout bubble labeled '④ Fill in these fields' points to the text input fields for Label, Display Name, Register Name, User Name, Password, and SIP Server. A green callout bubble labeled '⑤ Voicemail code' points to the 'Voice Mail' field, which contains '4'. A green callout bubble labeled 'check Note' points to a 'NOTE' section on the right side of the page. The 'NOTE' section contains the following text: 'Register Name SIP service subscriber's ID used for authentication.', 'Proxy Require Defines the STUN server will be active or not.', and 'Advanced The Advanced parameters for administrator.'

After entering the above settings, Account1 will 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 <http://www.voip-info.org/wiki/view/STUN>. To learn about NAT, you should refer to <http://www.voip-info.org/wiki/view/NAT+and+VOIP>

2.3 Configure the DSS Key as BLF

① Select "Phone"

② Select "DSS Key"

③ Select "BLF"

④ Select the right line

⑤ Extension number

⑥ Pickup code

Key	Type	Mode	Line	Expansion	Pickup Number
DSS Key 1	BLF	Conference	Line 1	101	*20
DSS Key 2	Key	Call Park	Line	*00	
		Conference		*9101	
DSS Key 5	N/A				
DSS Key 6	N/A	Conf			
DSS Key 7	N/A	Conference	Line 1		
DSS Key 8	N/A	Conference	Line 1		
DSS Key 9	N/A	Conference	Line 1		
DSS Key 10	N/A	Conference	Line 1		

NOTE

Key Type
The free function key 'Types' Speed Dial, BLF, Key Event, Intercom, URL.

Key Event
Key events are predefined shortcuts to phone and call functions.

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.

URL
This key function allows you to send HTTP requests to a web server.

Confirm Cancel

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

① Select "Phone"

② Select "DSS Key"

③ Select "KeyEvent"

④ Select "Call Park"

⑤ Select the right line

⑥ Park code + parking orbit

Key	Type	Mode	Line	Expansion	Pickup Number
DSS Key 1	BLF	Conference	Line 1	101	*20*
DSS Key 2	KeyEvent	Call Park	Line 1	*00	
DSS Key 3	Intercom	Conference	Line 1	*9101	
DSS Key 4	Intercom	Conference	Line 1		
DSS Key 5	Intercom	Conference	Line 1		
DSS Key 6	N/A		Line 1		
DSS Key 7	N/A		Line 1		
DSS Key 8	N/A		Line 1		
DSS Key 9	N/A	Conference	Line 1		
DSS Key 10	N/A	Conference	Line 1		

NOTE

Key Type
The free function key 'Types' Speed Dial, BLF, Key Event, Intercom, URL.

BLF
The button can be used to monitor the status of a line. When the line is busy, the button will be lit. This function is useful for the sip.

Key Event
Key events are predefined shortcuts to phone and call functions.

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.

URL
This key function allows you to send HTTP requests to a web server.

Confirm Cancel

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

An active call can be parked on orbit 0 by pressing DSS Key2 during your conversation.

2.5 Configure the DSS Key as Intercom

① Select "Phone"

② Select "DSS Key"

③ Select "Intercom"

④ Select the right line

⑤ Intercom code + extension

Key	Type	Mode	Line	Expansion	Pickup Number
DSS Key 1	BLF	Conference	Line 1	101	*20*
DSS Key 2	KeyEvent	Call Park	Line 1	*00	
DSS Key 3	Intercom	Conference	Line 1	*9101	
DSS Key 4		Conference	Line 1		
DSS Key 7	N/A	Conference			
DSS Key 8	N/A	Conference			
DSS Key 9	N/A	Conference	Line 1		
DSS Key 10	N/A	Conference	Line 1		

NOTE

Key Type
The free function key 'Types' Speed Dial, BLF, Key Event, Intercom, URL.

BLF
The button can be configured Busy Line Field function with specified account. This feature must be supported by the sip

Event
Key events are predefined shortcuts to phone and call functions.

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.

URL
This key function allows you to send HTTP requests to a web server.

Confirm Cancel

After entering the above settings, DSS Key3 will work as an Intercom key with extension 101.

3. Auto-configure Yealink Phone

Please refer to Yealink Document [Auto Provision Manual](http://www.yealink.com/fae/Auto Provision Manual.rar):
<http://www.yealink.com/fae/Auto Provision Manual.rar>

4. Configure 3CX

4.1 Login to 3CX

3CX Phone System v8.0.9532.46

Language: English

User Name: admin

Password: ****

Login

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Default User Name/Password: admin / admin

4.2 Configure an Extension on 3CX

4.2.1 Add an extension

File Add View Settings Links Help

Extension status Server Activity Log Add Extension Add PSTN Gateway Add VOIP Provider Wizard Create Outbound Rule Create DID

3CX

3CX Phone System

- Ports/Trunks Status
- Extension Status
- System Extensions Status
- Phones
- Server Activity Log
- Services status
- Extensions
- PSTN devices
- VOIP Providers
- Inbound Rules
- Bridges
- OutBound Rules
- Digital Receptionist
- Ring Groups
- Call Queues
- Settings
- Links
- Help

Extensions

Edit Extension settings and click OK or Apply to save changes.

General Forwarding Rules Phone Provisioning Other Blacklist

User Information

Specify extension number, name, and email address for voicemail notifications and fax delivery.

Extension Number 100

First Name

Last Name

Email address

Authentication

The authentication ID and Password are used by the phone to authenticate with

ID 100

Password ***

Voice Mail Configuration

If you are unable to answer a call, you can allow voice messages to be taken

Enable Voice mail ☒

Play Caller ID ☐

Read out date/time of message Do not read

PIN Number (used by 3CX Assistant) ***

Email Options No email notification

① Select "Add Extension"

② Extension Number

③ Authentication ID/Password

④ PIN for Voice Mail

Apply your settings and account 100 is established.

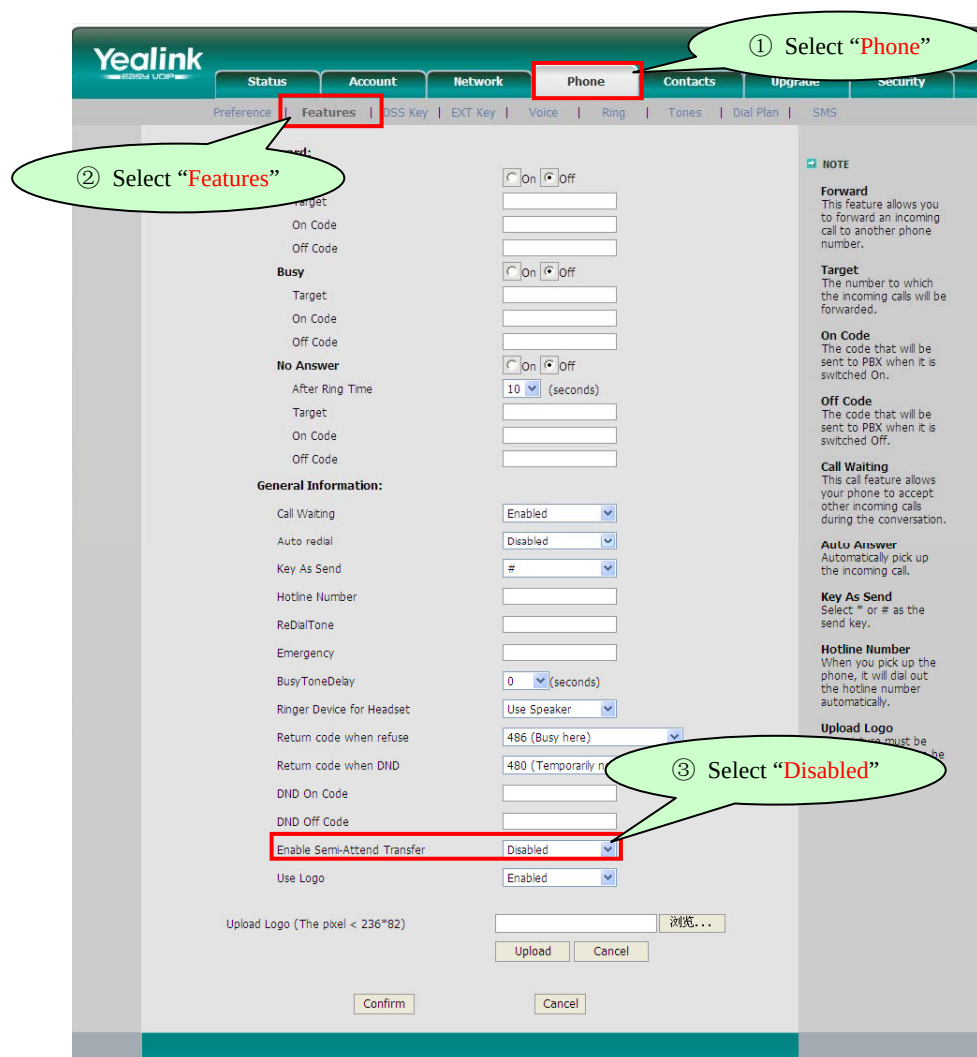
Appendix

1. Default Basic Dial Code on 3CX System

Voice Mail (VMail)	*4
Call Park	*0 + parking orbit
Callpark Retrieve	*1 + parking orbit
Intercom	*9

2. Other recommended settings

(1) Since semi-attended transfer is not supported on 3CX, to disable semi-attended transfer on Yealink phones is recommended:



Reference

- ◆ www.3CX.com
- ◆ www.yealink.com