

SYSTEM REQUIREMENTS

- DoorBird IP Video Door Station D10x/D11x/D21x Series.
- 3CX phone system server access portal.

ADDITIONAL INFORMATION

The following guide will take you through setting up a DoorBird IP Video Door Station in connection with the 3CX phone system. Please make sure that your DoorBird is online, using this service: https://www.doorbird.com/checkonline

The local IP address of your DoorBird is available from the same page.

- DoorBird will communicate with SIP phone through SIP Calls using the 3CX web server.
- During the call, you can enable the DTMF to Open Door/Trigger Relay.

1. SETTING UP THE SIP PHONE AND DOORBIRD IN THE 3CX PORTAL

1.1 Please Select the Default port for SIP server during the 3CX portal Configuration as shown below.

	sh (US) 👻
Port selection for Web services (HTTPS/HTTP) and VoIP (SIP and Tunnel) Select the ports required for the management console, web client and VoIP services. You can leave the default options or choose other ports. Not all ports are perm and ports cannot be changed after. These ports are automatically opened on your Windows or Linux local firewalls but you will need to port forward these ports or border firewall device. More information <u>here</u> .	nitted 1 your
Enter a FREE port for HTTPS. Recommended 443 or 5001.	
5001 Enter a FREE port for HTTP. Recommended port 80 or 5000.	0
5000	\$
Enter a FREE port for the SIP server. Default 5060.	
5060 Enter a FREE Tunnel Port. Default 5090.	$\hat{\mathbf{v}}$
5090	\$
-Prev	Next→

Note: The SIP server port cannot be changed after completing the 3CX portal configuration steps.



1.2 Login to the 3CX portal page using the credentials.

3CX		
Welcome to the 3CX Management Conse	ole	
User name or extension number		
Password		
English (UK)	÷	
Login		

1.3 In the User section, check the default extension details created during the 3CX portal configuration. It will display a Green color dot mark.

earch Ext. First Name Last Name Email Mobil	Add a conc	Groups	Export Export	• Status	- copy extension
Ext. First Name Last Name Email Mobil	earch				

1.4 Click on default user > Phone Provisioning. Click on Add to add SIP phone supported by the 3CX system.

General	Voicemail	Forwarding Rules	Phone Provisioning	BLF	Options	Rights	
Phone F	Provisioning						
+ Add	\mathbf{D}						
Your pho	ones						
3CX A	рр						✓ X Delete

1.5 Select your SIP phone and enter the Mac Address of the device. Click on OK.

ard	Add Phone	×	
	Choose from available models		
	Yealink T58	~	
	Mac Address		
	ebddfedffb		
		ОК Cincel	



1.6 On the same page select IP Phone details.Select Provision method > Local LAN.Select Interface > IP address.

IP Phone		General	Voicemail	Forwarding Rules	Phone Provisioning	BLF	Options	
Provisioning Method		Phone I	Provisioning					
Local LAN (in the office)		+ Add						
Provisioning Link: http://10.0.0 i:5000/provisioning/q4t4cnvqpk		Your ph	ones					
Mac Address		Yealin	k T58					
1451651dvsf		For info on how to provision this phone click here.						
Select Interface		Authentication						
10.0.0		Authent	ication details u	ised by phones & apps.	Reprovision after a chan	ge		

Note: Use the Provisioning link http://10.0.0.0:5000/provisioning/q4t4cnvqpk during the auto provision of the SIP phone.

1.7 In the Options section, we can find the Phone web page password. Please use the same password to login the SIP phone web page.

Options	
Phone Display Language	
English	~
Timezone	
Use global Timezone	~
Date Format	
WWW MMM DD (Mon Jan 15)	~
Time Format	
24-hour clock	~
Phone Web Page Password	
()	۲

1.8 Please make any other changes according to your requirement else leave as it is.

Hint: You only need the Provisioning link & Phone web page password for configuring the SIP phone, you can leave other parameters as default.



1.9 Click OK at the top. Now the SIP phone is added to the User 10.

di	Dashboard	10 first name lastname OK Cancel	() Help
1	Users		
2	Phones	General Voicemail Forwarding Rules Phone Provisioning BLF Options Rights	
0	SIP Trunks		
ŧ	Inbound Rules	User Information	
1	Outbound Rules	Extension Scan this OR code from t	he
Q	Digital Receptionists	10 3CX Android or IOS app 1 provision it for this exter	io Ision

1.10 Click on Add. Add the DoorBird as User 11.

-di	Dashboard		lleore								
1	Users		03013								
8	Phones		Users								
0	SIP Trunks	1		and Maria	A1		A court		at the division of the state	-	Pro-
ŧ	Inbound Rules		T Add	Edit Del	Groups	Import	Export	14 Regenerate	Send Welcome Email	• Status	Le Copy Extension
t	Outbound Rules		Search								
Q	Digital Receptionists			Ext.	First Name	Last Na	ame	Email	Mobile	Caller ID	Phones
쓭	Ring Groups		•	10	хузхуз	xyzxyz		abcdef@gmail.co	m		1
_											
2	Phones		General	Voicemail	Forwarding Rule	s Phone I	Provisionin	g BLF (Options Rights		
0	SIP Trunks										
ŧ	Inbound Rules		User Infor	mation							
t	Outbound Rules		Extension								
Q	Digital Receptionists		11)							
쓭	Ring Groups		First Name								
8	Backup and Restore		Door								
≡	Reporting	*	Last Name								
U	Security	*	Bird								
٥	Advanced	*	Email Addr abcdef@	ess gmail.com							
۶	Settings		Mobile Nur	mber							
20X	Portal										

1.11 Enter your Name and Email Address.



1.12 Click on Phone Provisioning. In Authentication section you can enter the ID and Password of your choice or else you can use the default ID and Password, which is required during the DoorBird Configuration (Section 3).

di	Dashboard	11 Door Bird ок Cancel	🕲 Help
1	Users		
2	Phones	General Voicemail Forwarding Rules Phone Provisioning BLF Options Rights	
0	SIP Trunks		
ŧ	Inbound Rules	Phone Provisioning	
1	Outbound Rules	+ Add	
Q	Digital Receptionists	Your phones	
쓥	Ring Groups	3CX App V X Dele	ste
8	Backup and Restore		
=	Reporting 😽	Authentication	
U	Security 😽	Authentication details used by phones & apps. Reprovision after a change	
٥	Advanced 😽	ID Def2We0KerB	
۶	Settings	Destword	
3CX	Portal		۲

1.13 On the same page, in Network section Select Network Interface > IP address, SIP Transport >TCP, RTP Mode >Normal, DTMF Mode > RFC2833.

Network	
Network interface for registration and provisioning	
10.0.0	`
SIP Transport	
тср	
RTP Mode	
Normal	
DTMF Mode	
RFC2833	`
Enable Push notifications	
Re-provision phone on startup	
Use 3CX Tunnel for remote connections (3CX App only)	

Note: You can edit other options as per your requirements.

1.14 Click on OK at the top to save the User you have created.

11 Door Bird	ОК	Cancel



1.15 This is another way to add a SIP phone.

Go to Phones. Select your Phone, Click on Assign Extension.

2	Phones		Phones	5									
0	SIP Trunks		+ Add	d Phone	Edit Ext	Add Ext	Assign Ext	Reject	+ Firmware	C Reboot	→ Reprovision	Phone UI	+ Config
ŧ	Inbound Rules		Opt	ions									
t	Outbound Rules		_										
Q	Digital Receptionists		Search	n									
쓥	Ring Groups			Ext.	Vendo	r			м	odel			
8	Backup and Restore			New	Alcate	et			Te	mporis_IP1	50		×
:=	Reporting 🗸			10	3CX				W	ebclient			۲
U	Security	. (11	Yealin	k			SI	P-T58			۲

1.16 Select your Extension Number (User 10). Click on OK.

	Assign phone to extension						
	Choose Extension						
	10 cdhgwyhb						
it Ext 1 Add Ext	11 Door Bird	el					

1.17 The first User 10 is created while creating the 3CX portal and User 11 is created now, it will appear green after Section 3.

	dd 🖉 Edit	X Delete	de Groups	↓ Import	+ Evnort	*3 Pegenerate	Send Welcome En	ail Ctatue	
2	Copy Extension	The Delete	Groups	- import	- cxport	Let Negenerate	1. Send Welcome ch	Jatus	
Sea	Search								
	Ex	t. F	irst Name			Las	t Name		
	• 10	ab	cdef			xyz			×
• 🗆	• 11	C	Door			Bird			×
	€2	Copy Extension Search Ext 10 10 11	Copy Extension Search Ext.	Copy Extension Search Ext. First Name 10 abcdef 11 Door	Copy Extension Search Ext. First Name 10 abcdef 11 Door	Copy Extension Search Ext. First Name 10 abcdef 11 Door	Copy Extension Search Ext. First Name Lass 10 abcdef 11 Door Bird	 Ext. First Name Last Name 10 abcdef 11 Door Bird 	 Copy Extension Search Ext. First Name Last Name 10 abcdef xyz 11 Door Bird



2. SETTING UP THE SIP PHONE BY AUTO PROVISION METHOD

a

2.1 Login to the SIP phone web page (Use the password from step 2.6).

2.2 Go to Settings --> Auto Provision. Enter the Server URL link (from Step 2.5 the provisioning link).

2.3 Click on Confirm first then Click on Auto Provision Now.

2.4 The SIP phone will restart and 3CX image will display on the SIP phone.



rade	IPv4 DHCP Option Value	yealink	0
Draudicion	IPv 6 Custom Option		0
D Provision	Server URL	tp://:10.0.0.0 :5000/provis	ioning/0w3z3aei9fo4
figuration	emenne		
Plan	Password	•••••	
e	Attempt Expired Time (s)	20	0
	Common AES Key	•••••	0
	MAC-Oriented AES Key	•••••	0
s	Self-Define RSA Pri Key	Disabled v	0
ey Layout	Import RSA Pri Key	No selected file	Browse 🕜
i0		Upload Cancel	
13	Zero Active	Disabled 🗸	0
e Monitoring	Wait Time (1~100s)	5	0
	Power On	⊙ On ○ Off 🕜	
er Saving	Repeatedly	🔾 On 💿 Off 🕜	
	Interval (Minutes)	1440	0
	Weekly	○ On ⊙ Off 🕜	
	Weekly Upgrade Interval (0~12week)) 0	0
	Inactivity Time Expire (0~120min)	0	0
	Time	00 : 00 - 00 : 00	0
		Sunday	
		Monday	
	Day of Week	Wednesday 🕜	
		Thursday	
		Saturday	
	Flexible Auto Provision	On Off (2)	
	Flexible Interval Days	30	0
	Flexible Time	02 . 00	0
	C	Auto Provision Now	
	C		



3. SETTING UP THE DOORBIRD IP VIDEO DOOR STATION

3.1 Open the DoorBird App and log into the administration area under "Settings -->Administration" using the administrator username and password credentials from the "DIGITAL PASSPORT" document that was shipped with your DoorBird IP Video Door Station.

4:21		3	ŶÎ
	Administrati	on	
LOGIN			Q
Admin name			
Admin password			0
Save login			

3.2 Choose "SIP Settings" from the menu and activate the "SIP active" switch. Enter SIP Proxy --> 10.0.0.0:5060(IP address of the 3CX portal page,3CX_SIP_server_port --> Standard Port 5060). Enter SIP User --> DoorBird User, Extension Number, and Password from Step 1.12.





Hint: 1. For SIP User --> Extension assigned for DoorBird in the 3CX portal (Step 1.11). 2. For SIP Password --> Password from the Authentication section (Step 1.12).

3.3 If you want to Open Door/Trigger Relay during the call, then you can enable the DTMF and enter PIN.

3.4 If you want to call from a SIP phone to DoorBird, then enable Allow Incoming Calls. Click on Add. Enter --> SIP phone, User Extension number@3cx portal IP address: 3CX SIP server port

Allowed SIP Users				
10@10.0.0.0:5060				
ADD				
ADD				



3.5 Save the SIP settings.

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DoorBird Connect 3CX



3.6 If Last Error code is 200 then the configured SIP Settings are correct otherwise please check again for the entered details.

3.7 Go back to the main administration area, tap on "SIP Numbers", then tap "Add".



Note: Name --> 3CX , SIP address --> 3CX-SIP_phone _User_Extension_Number@3cx_portal_IP_address:3CX_SIP_server_port

3.8 Click on Save.



3.9 It will display green color in the 3CX portal after successfully configuring the SIP Settings in the DoorBird App.

	Ring Groups Backup and Restore			Ext.	First Name	Last Name
			•	10	xyzxys	vcvasdjkhbdk
:=	Reporting 😽		•	11	Door	Bird

4. SCHEDULE CONFIGURATION

To forward calls from the DoorBird IP Video Door Station to the integration, a schedule for ring events needs to be set up. Depending on the model of the DoorBird IP Video Door Station, choose one of the following options:

A) For all devices with a Single Call Button (e.g. D1101V, D2101V, D2101KV, etc.), find the corresponding settings in the DoorBird App administration menu EXPERT SETTINGS when selecting "Schedule for doorbell".

In this screen, tap the bell symbol in the upper-left corner, select "SIP call" and fill out the schedule as per your requirements for this event.

B) For all devices with multiple call buttons(e.g. D2102V, D2103V, D2112V, etc.), find the corresponding settings in the DoorBird App administration menu BUTTON CONFIGURATION when selecting "Settings".

Select the call button the event needs to get assigned to and go to "Schedule for actions".

In this screen, tap the bell symbol in the upper-left corner, select "SIP call" and fill out the schedule per your requirements for this event.



C) For all devices outfitted with a digital display module (e.g. D21DKV), find the corresponding settings in the DoorBird App administration menu KEYPAD when selecting "Settings".

Select the keypad combination the event needs to get assigned and go to "Schedule for actions".



In this screen, tap the bell symbol in the upper-left corner, select "SIP call" and fill out the schedule per your requirements for this event.

Hint: By tapping the button in the upper right corner it is possible to fill or empty the entire schedule.

4.4 Return to the main administration area and save the settings.

Note: If you have any questions or problems with the 3CX portal configuration, please contact the 3CX support team directly online : https://www.3cx.de/support/

Note: For questions and problems regarding our devices (DoorBird IP Video Door Station or DoorBird IP Upgrade), please contact our technical support via the contact form online : https://www.doorbird.com/de/contact

FIRMWARE INFORMATION

This manual was tested using the following versions:

1. 3CX Web server

Version: 18.0 Update 7(Build 304) Operating System: Debian Linux 2. Door Bird IP Video Door Station:

Hardware device series: D21DKH-V2A Software Version: 000138

Hardware device series: D1102FV Software Version: 000139

Hardware device series: D101S Software Version: 000138