

SYSTEM REQUIREMENTS

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

ADDITIONAL INFORMATION

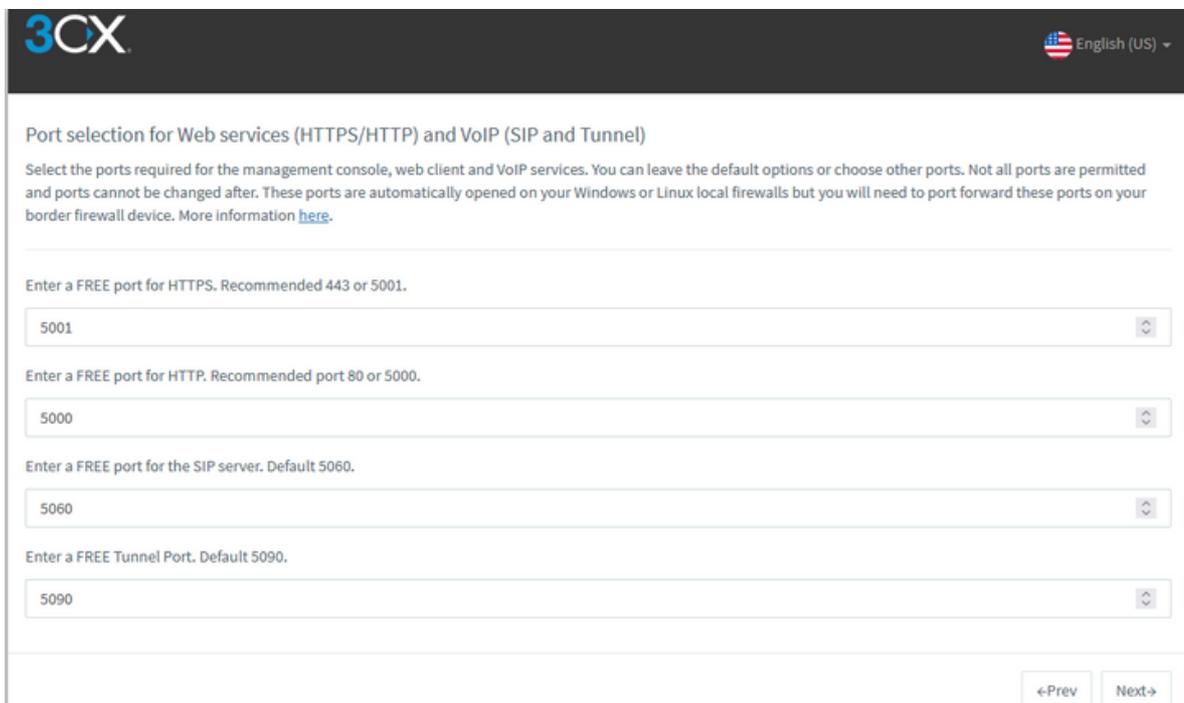
The following guide will take you through setting up a DoorBird IP Video Door Station in connection with the 3CX phone system. Please make sure that your DoorBird is online, using this service: <https://www.doorbird.com/checkonline>

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

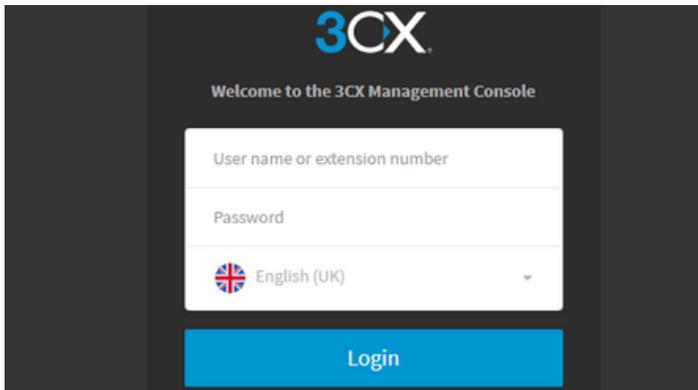
1.1 Please Select the Default port for SIP server during the 3CX portal Configuration as shown below.



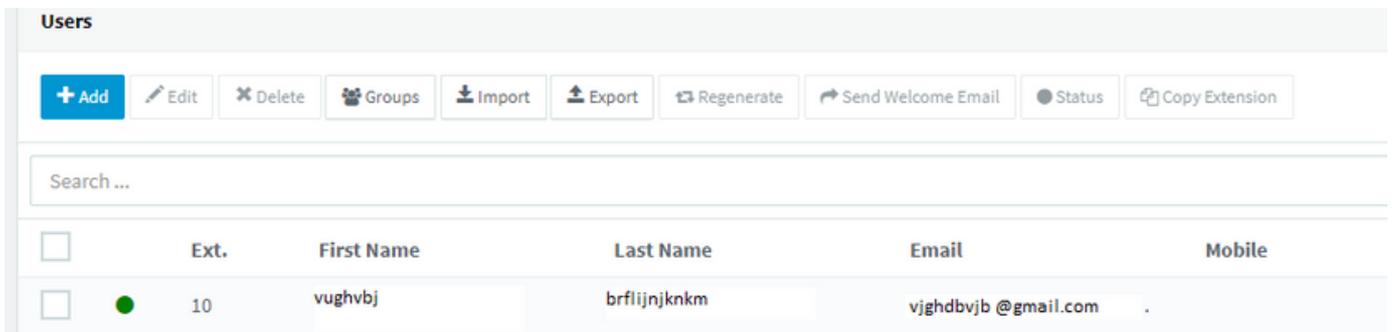
The screenshot shows the 3CX portal configuration interface. At the top left is the 3CX logo, and at the top right is a language dropdown menu set to 'English (US)'. The main heading is 'Port selection for Web services (HTTPS/HTTP) and VoIP (SIP and Tunnel)'. Below this is a paragraph of instructions: '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 permitted 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 on your border firewall device. More information [here](#).' There are four input fields, each with a dropdown arrow on the right. The first field is labeled 'Enter a FREE port for HTTPS. Recommended 443 or 5001.' and contains '5001'. The second field is labeled 'Enter a FREE port for HTTP. Recommended port 80 or 5000.' and contains '5000'. The third field is labeled 'Enter a FREE port for the SIP server. Default 5060.' and contains '5060'. The fourth field is labeled 'Enter a FREE Tunnel Port. Default 5090.' and contains '5090'. At the bottom right of the form are two buttons: '<Prev' and 'Next>'. The entire form is enclosed in a light gray border.

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

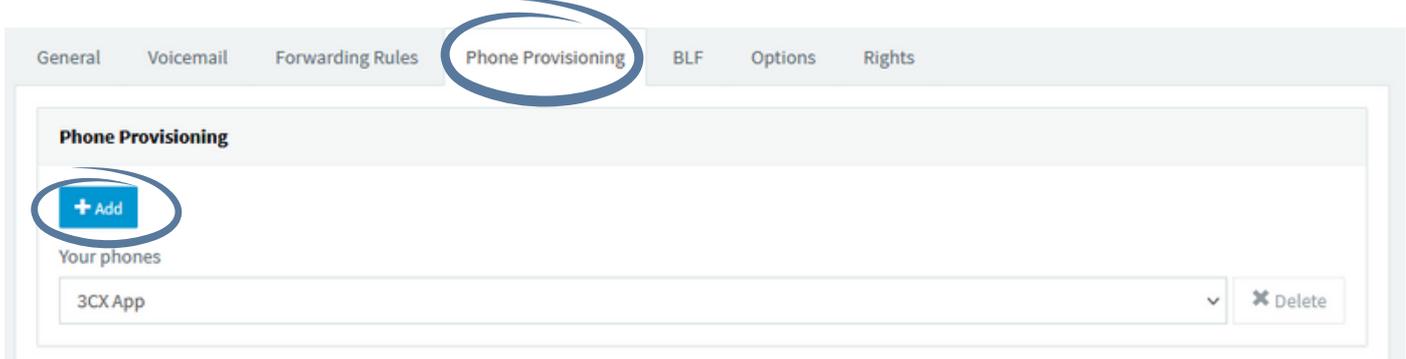
1.2 Login to the 3CX portal page using the credentials.



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.



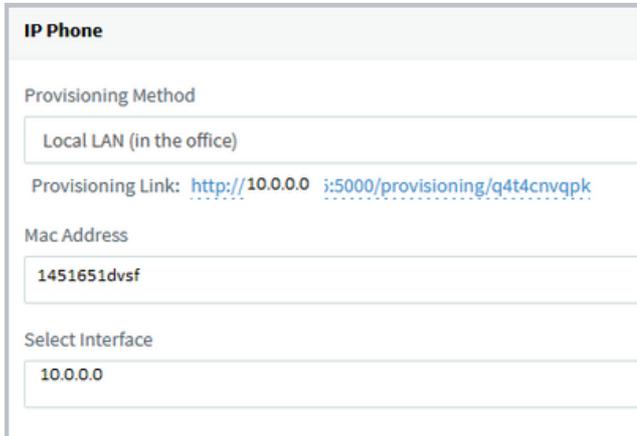
1.4 Click on default user > Phone Provisioning. Click on Add to add SIP phone supported by the 3CX system.



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



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



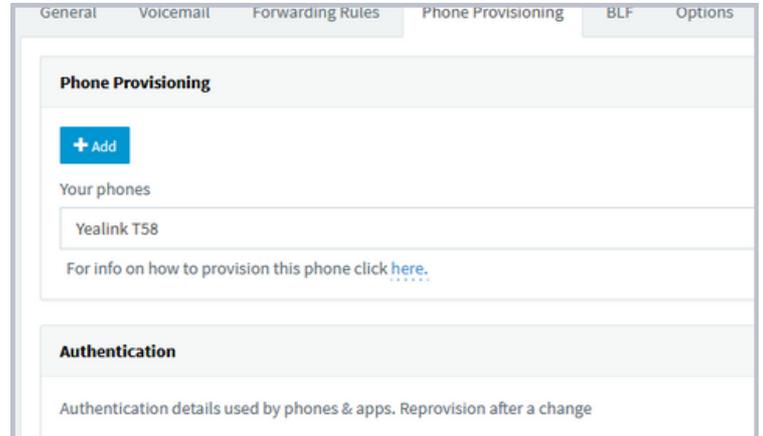
IP Phone

Provisioning Method
Local LAN (in the office)

Provisioning Link: <http://10.0.0.0:5000/provisioning/q4t4cnvqpk>

Mac Address
1451651dvsf

Select Interface
10.0.0.0



General Voicemail Forwarding Rules Phone Provisioning BLF Options

Phone Provisioning

+ Add

Your phones
Yealink T58

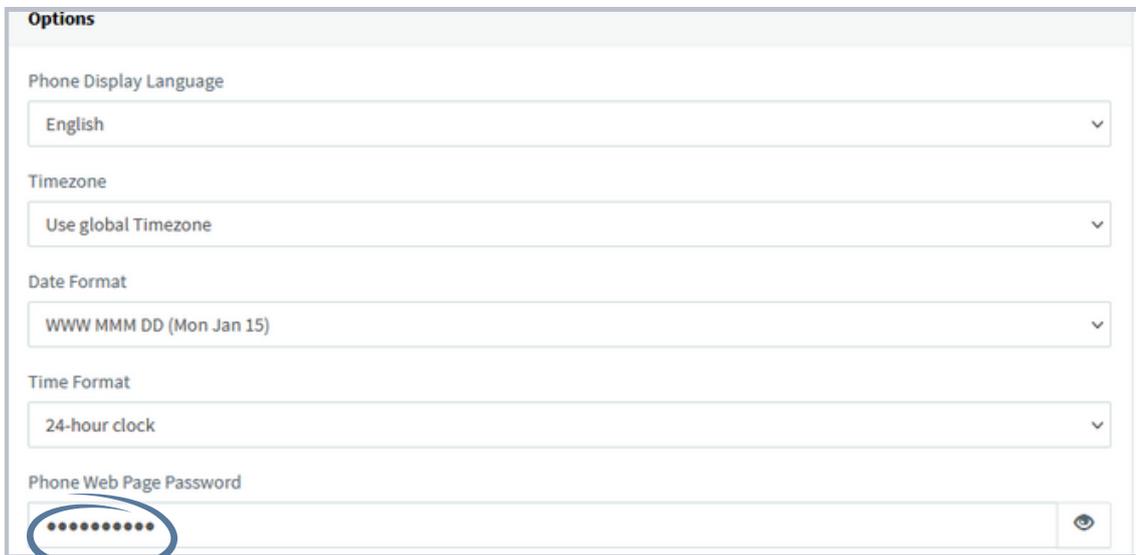
For info on how to provision this phone click [here](#).

Authentication

Authentication details used by phones & apps. Reprovision after a change

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)

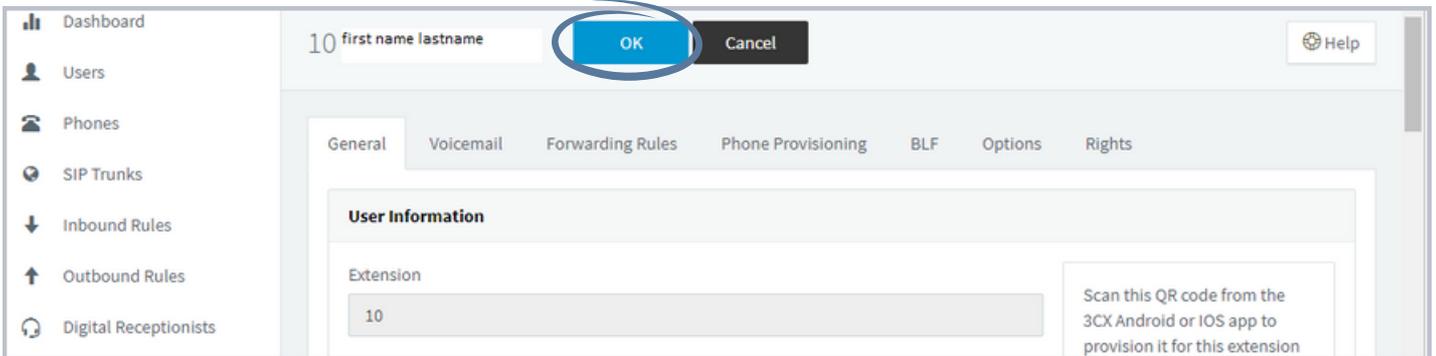
Time Format
24-hour clock

Phone Web Page Password
••••••••

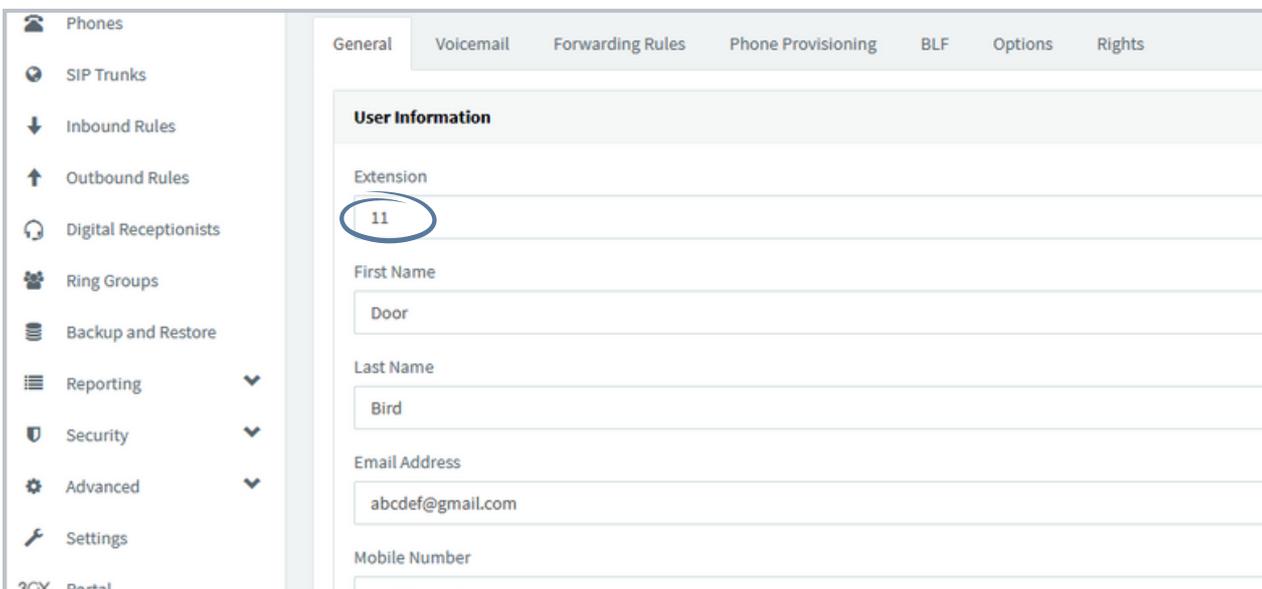
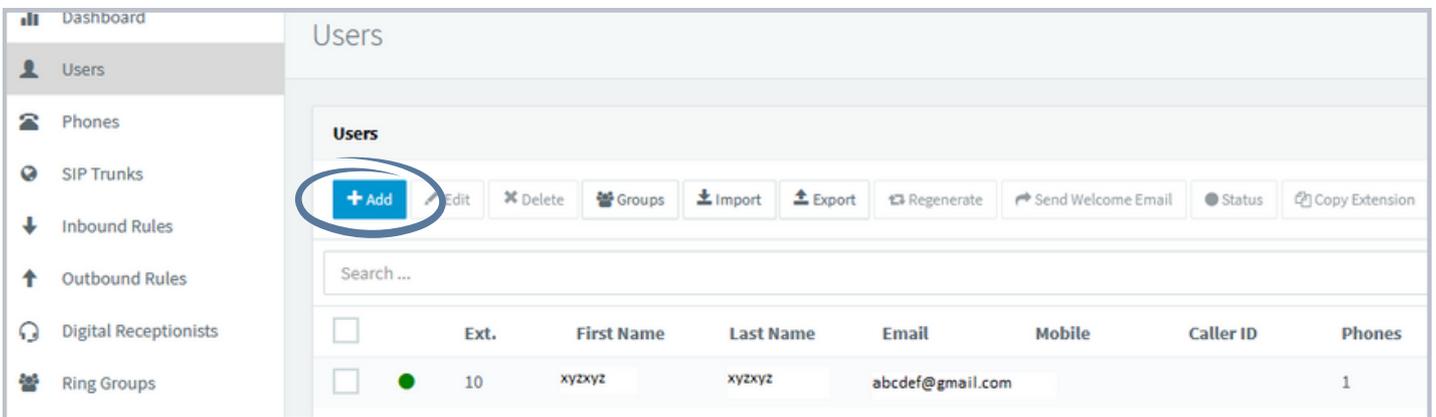
- 1.8 Please make any other changes according to your requirement else leave as it is.

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.

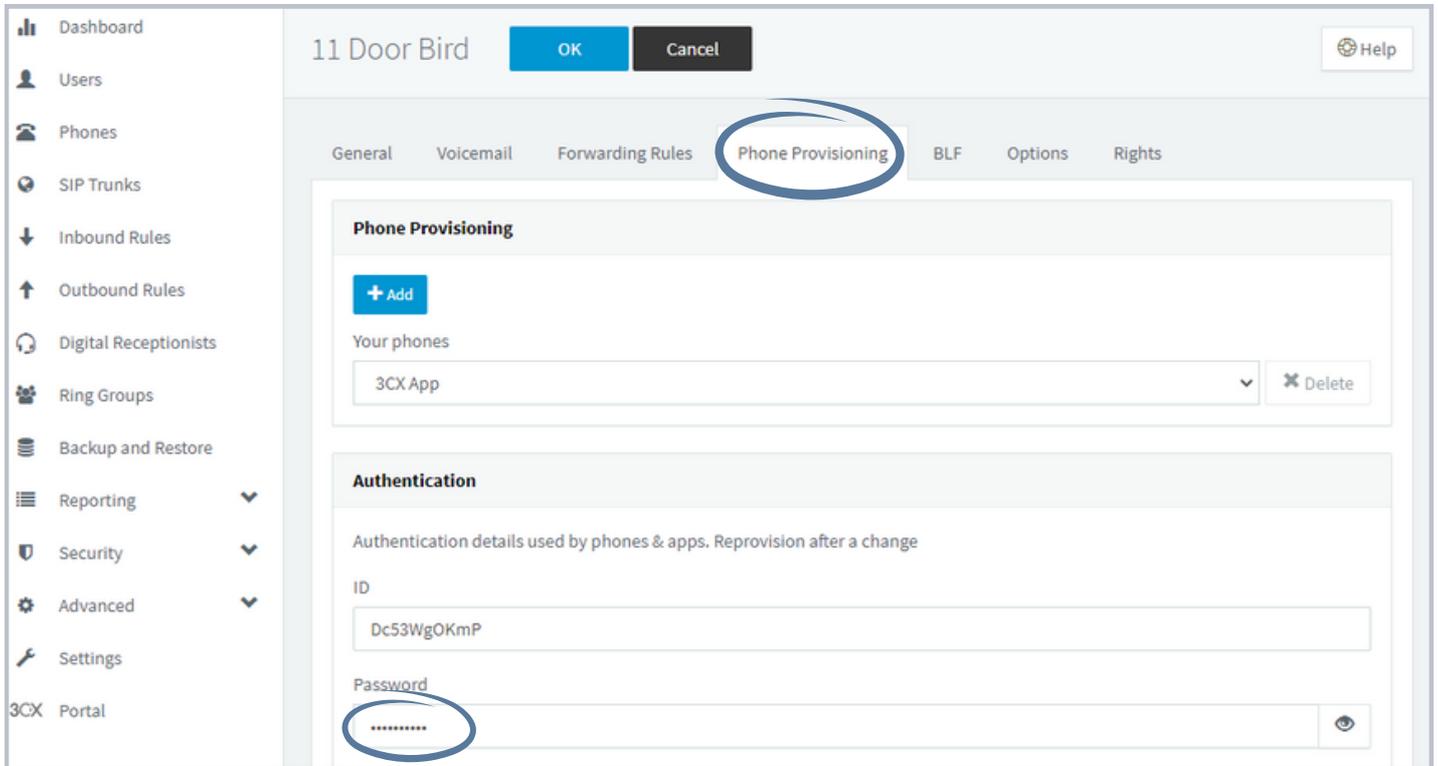


1.10 Click on Add. Add the DoorBird as User 11.

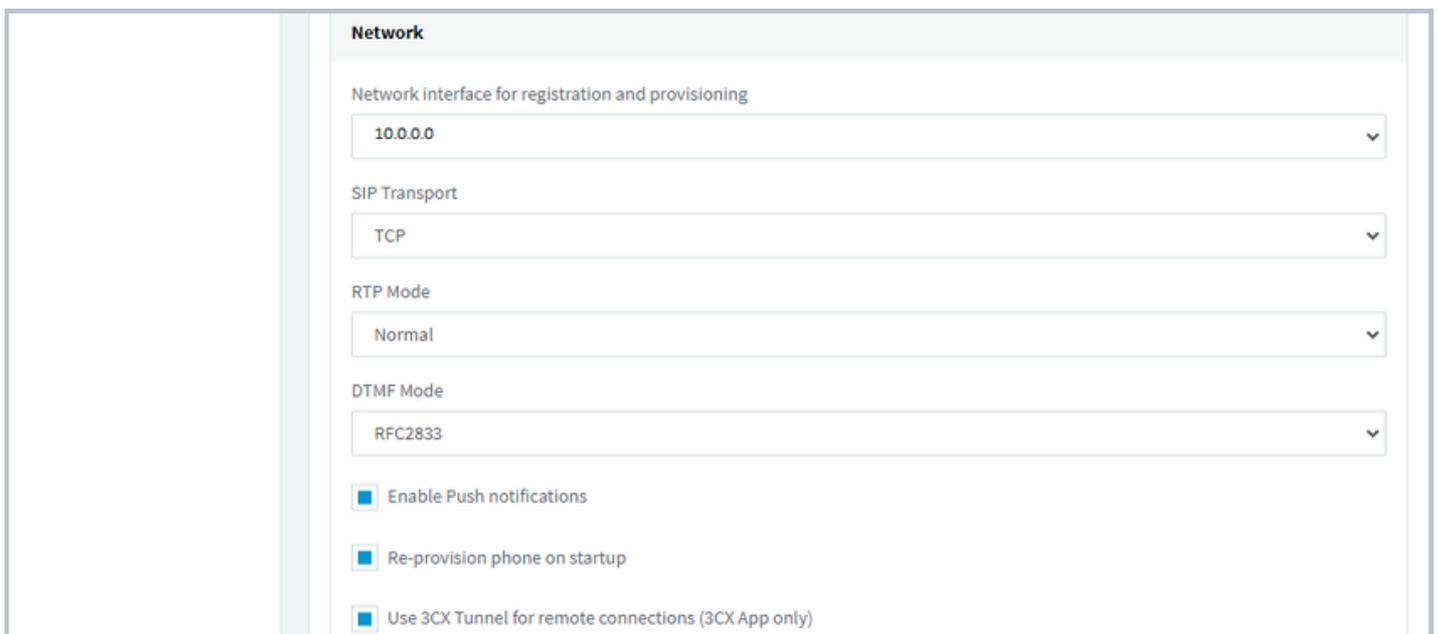


1.11 Enter your Name and Email Address.

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).



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

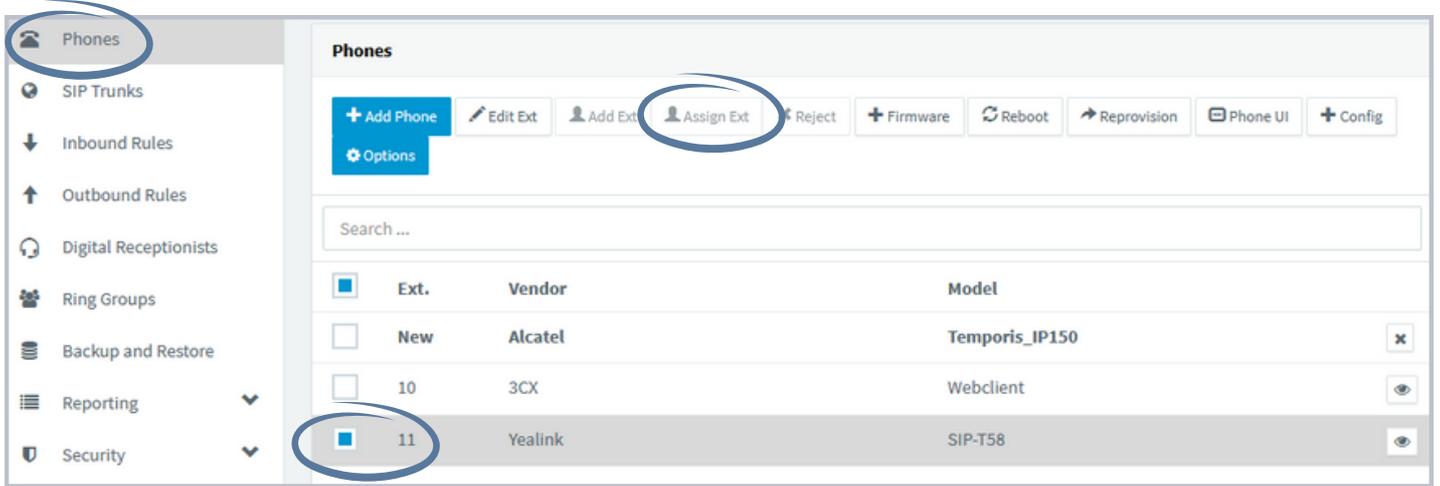


Note: You can edit other options as per your requirements.

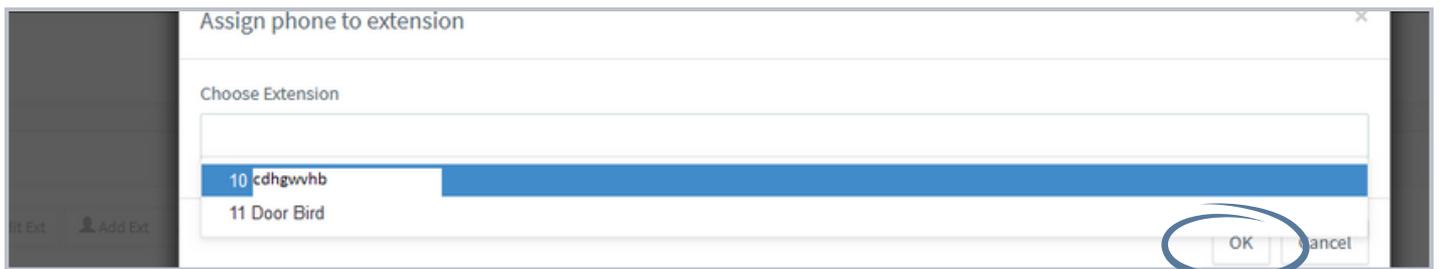
1.14 Click on OK at the top to save the User you have created.



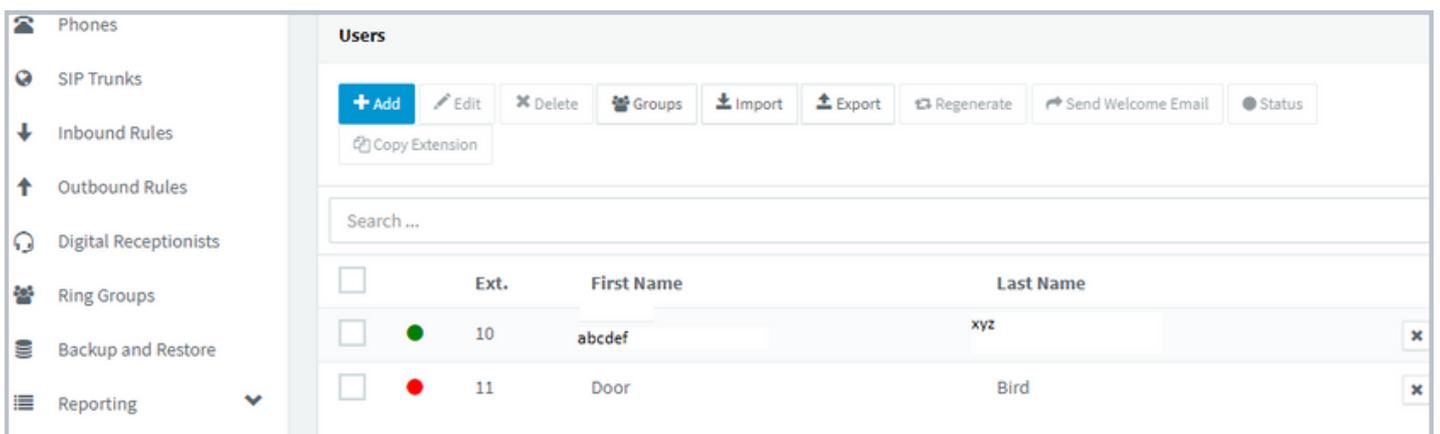
1.15 This is another way to add a SIP phone.
Go to Phones. Select your Phone, Click on Assign Extension.



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



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.



2. SETTING UP THE SIP PHONE BY AUTO PROVISION METHOD

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.

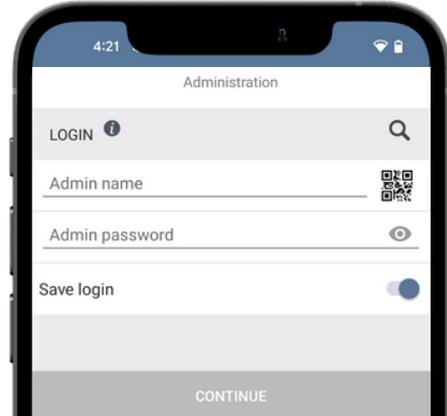
2.4 The SIP phone will restart and 3CX image will display on the SIP phone.



The screenshot shows the configuration page for a SIP phone. On the left is a navigation menu with items: Upgrade, Auto Provision (circled in blue with 'a'), Configuration, Dial Plan, Voice, Ring, Tones, Softkey Layout, TR069, Voice Monitoring, SIP, and Power Saving. The main area contains various settings. 'Server URL' (circled in blue with 'b') is set to 'http://10.0.0.0:5000/provisioning/0w3z3ae9fo4'. At the bottom, the 'Confirm' button (circled in blue with 'c') and 'Auto Provision Now' button (circled in blue with 'd') are visible.

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.



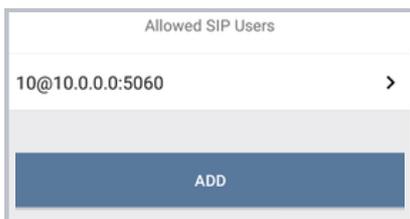
3.2 Choose "SIP Settings" from the menu and activate the "SIP active" switch. Enter SIP Proxy --> 10.0.0.0:5060(IP address of the 3CX portal page, 3CX_SIP_server_port --> Standard Port 5060). Enter SIP User --> DoorBird User, Extension Number, and Password from Step 1.12.



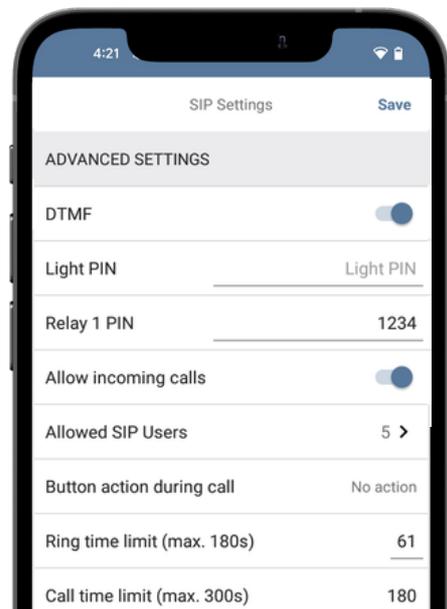
Hint: 1. For SIP User --> Extension assigned for DoorBird in the 3CX portal (Step 1.11).
 2. For SIP Password --> Password from the Authentication section (Step 1.12).

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

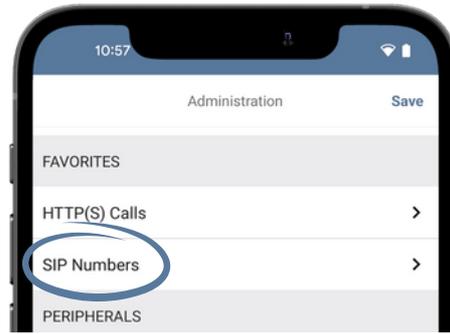


3.5 Save the SIP settings.



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

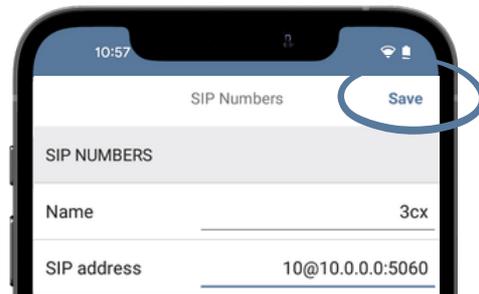
3.7 Go back to the main administration area, tap on "SIP Numbers", then tap "Add".



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	<input type="checkbox"/>	Ext.	First Name	Last Name
Backup and Restore	<input checked="" type="checkbox"/>	10	xyzxys	vcvasdjkhdsk
Reporting	<input checked="" type="checkbox"/>	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.

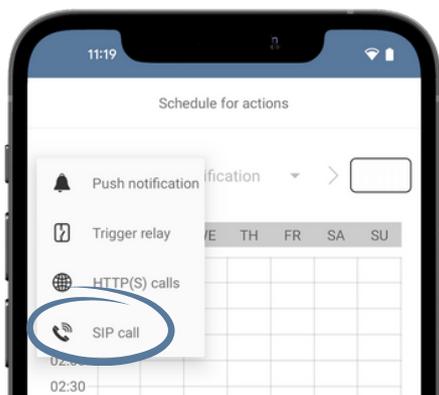
B) For all devices with multiple call buttons(e.g. D2102V, D2103V, D2112V, etc.), find the corresponding settings in the DoorBird App administration menu BUTTON CONFIGURATION when selecting "Settings".

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

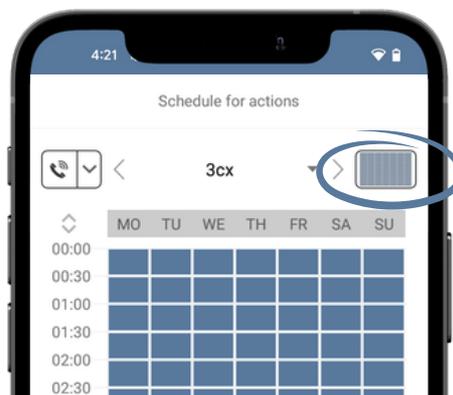
In this screen, tap the bell symbol in the upper-left corner, select "SIP call" and fill out the schedule per your requirements for this event.

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