

3CX & Dnake User Manual

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1 Establishment of 3CX Server

Version 18

1.1 Download 3CX

1. Go to Official website of 3CX (https://www.3cx.com/) and download 3CX System v18 version on your computer.

3CX							© Ø :
Ny Subscription	Downloads						
🐖 Get Support							
👪 Users	3CX System and APPs						
★ Get Certified			0	ĕ	A		\bigcirc
		Windows	Linux	Raspbian	iOS	Android	Chrome
 Downloads 	3CX System	v18	v18	Guide			
🏟 My Account	Client Apps	3CX Desktop App			App Store	Play Store	v16
		3CX Windows Client (Legacy)					
	SBC	v18	v18	Gulde			
	Call Flow Designer	v18					
	Tapi & Outlook Plugin	Download					
	3CX CRM Template Generator	Download					

3. After downloading, login your 3CX Server.

1.2 Add Users for Indoor Monitor and Outdoor Station

1. All other Settings remain default. The followings are the steps to add Users for Indoor Monitor and Outdoor Station.

- Step 1: Login 3CX Server. Go to Users page.
- Step 2: Click Add to add users.

=	3CX										Updates 👻 📲 🕶	
ılı L	Dashboard Users	Users										Help
2	Phones	Users										
+	SIP Trunks	+ Add	🖌 Edit 🗙 Dele	te 🖉 Groups 🛓	Import £ Export	13 Regenerate	A Send Welcome Email	• Status	12 Copy Extension			
t	Outbound Rules	Search										
9	Messaging		Ext.	First Name	Last Name	Ema	il Mo	bile	Caller ID	Phones	Synced with	
0	Digital Receptionists	•	100	Jamie	Shi	jami	eshi3326136			2		×
	Ring Groups Backup and Restore											
=	Reporting 😽											
U	Security 💙											
٥	Advanced ¥											
*	Settings											
3CX	Portal											

• Step 3: After clicking Add, click OK to confirm. A user will be created automatically.

In Dashbaard 101 Cancel
Users Phones Phones Sor Trinks Inbound Rules Outbound Rules Detroilon Digital Receptionists First Name First
Sentisk General Volcemail Proverding Bule Phone Provisioning BLF Options Rights Click/zlal//Click/zMeet Inboard Rules Inboard Rules Extension San this QR code from the 2CX Android or US apo to provision if or this stension Inboard Rules Int Int San this QR code from the 2CX Android or US apo to provision if or this stension Inboard Rules First Name First Name San this QR code from the 2CX Android or US apo to provision if or this stension
O SIP Trunks Inbound Rules User Information Outbound Rules Extension Digital Receptionists First Name First Name First Name
Inbound Rules User Information • Outbound Rules Extension • Outbound Rules Extension • Outbound Rules Io1 • Messaging Io1 • Digital Receptionists First Name • Ring Groups First Name
• Outbound Rules Extension Scan this QR code from the sC/Android or US spo to sC/Android or US spo to provision it for this extension • Digital Receptionists First Name • Ring Groups First Name
Messaging 101 101 302.Madioi and 105.app to provision it for this extension () Digital Receptionists First Name First Name () Digital Receptionists () Digital Receptionist ()
O Digital Receptionists Frist Name Wing Groups Frist Name
Image: Second
Backup and Restore
Exepting
U Security V Enail Address
Advanced Construction
Settings Mobile humber
3CX Portal Outbound Caller ID
Outbound Caller ID

Step 4: ID and Password of this user account can be found in Phone Provisioning. Please note that only visiable password can be copied. ID and Password are useful information we will use in Indoor Monitor and Outdoor Station.

=	3CX.			<u> 제</u> 문 ~ 제문 ~		A -
dı	Dashboard	101 OK Cancel			🕲 Help	Â
1	Users					
2	Phones	General Voicemail Forwarding Rules Phone Provisioning BLF Options Rights Click2Talk/Click2Meet				
0	SIP Trunks					
÷	Inbound Rules	Phone Provisioning				
t	Outbound Rules	+ Add				
	Messaging	Your phones				
0	Digital Receptionists	3CX App		× De	lete	
쑵	Ring Groups					
	Backup and Restore	Authentication				
=	Reporting	Authentication details used by phones & apps. Reprovision after a change				
U	Security 🗸	ID				
0	Advanced 🗸	mkkXxyPWz7				
6	Californi	Password		F		
	serrings	lvoWRQ66yU		→	۲	
3CX	Portal					
		Network				

2 Register Indoor Monitor to 3CX Server

Before you start:

- Make sure the device is in good condition and all the assembly parts are included.
- Make sure your network functions well. The Outdoor Station, the Indoor Monitor and computer are under the same LAN. Only when they are under the same LAN can they communicate.
- Download Remote Upgrade Tool from the link below. (https://mega.nz/file/hglDVYxB#6Igsmo031nupq30DosaSxHay0WzwwgFQh5ew521hkAA)

2.1 Network settings

1. Connect the Ethernet cable to Outdoor Station, Indoor Monitor, and computer. Please keep them under **the same LAN**.

2.2 Fill 3CX accounts in the Indoor Monitor

1. The followings are the steps to fill in **Proxy, Realm, User, UserID and Password** in the Indoor Monitor.

- Step 1: After the settings, you can double click IP address of the Indoor Monitor on the page of Remote Upgrade Tool to open the website. You can also put Indoor Monitor's IP address in the browser's search bar to log in its webpage with account: Admin and password: 123456.
- Step 2: Go to VOIP to fill in Proxy and Realm. Both of their IP address should be 3CX Server's IP address such as Proxy: sip:192.168.0.104 and Realm: 192.168.0.104.

	Streaming Media Solution
Main	SIP Settings
Network RoomNo.	SIP enable:
VOIP Advanced	Proxy: sip:192.168.0.104
Others License	Realm: 192.168.0.104 Outbound: sip:
Logout	User: 101
	Userld <u>kYfUvQcrG7</u> Password: ······
	Transport: TCP V
	Timeout: 300s V Voice 224.0.2.1:50001
	Submit

Step 3: Still on the page of VOIP, please fill in User, UserID and Password of 3CX Server's User you want to distribute to Indoor Monitor. User is the Extension number of 3CX

DNAKE

Server. UserID is the ID of Extension and Password is the Password of the extension. Remember to tick **SIP enable** and then **Submit** after filling in Proxy, Realm, User, UserID and Password.

	Streaming	g Media Solution	
in .	SIP Setting	js	
twork pmNo.	SIP enable:		
vanced	Proxy:	sip:192.168.0.104	
bkit	Realm:	192.168.0.104	
iers	Outbound:	sip:	
ense			
	User:	101	
	UserId	kYfUvQcrG7	
	Password:	******	
	Transport:	TCP V	
	Timeout: Voice Multicast	300s V 224.0.2.1:50001	

Step 4: Go to Main page to check SIP is OK or not. If SIP is OK, then Indoor Monitor is ready. If SIP is ERR, please make sure numbers are all correctly filled.

	Streaming M	edia Solutio	n	- F ø
Main Network RoomNo.				Smart Home And Intercom System
Advanced		Framework	:: 1.9.0 20211104	
Webkit		Voip:	1.3.2 20210607 (std)	
Others		Security:	1.0.5 20170412 (std)	
License		Smart:	ERR	
	×	SIP:	ОК	

3 Register Outdoor Station to 3CX Server

Before you start:

- Make sure the device is in good condition and all the assembly parts are included.
- Make sure your network functions well. The Outdoor Station, the Indoor Monitor and computer are under the same LAN. Only when they are under the same LAN can they communicate.
- Download Remote Upgrade Tool from the link below. (https://mega.nz/file/hglDVYxB#6Igsmo031nupq30DosaSxHay0WzwwgFQh5ew521hkAA)

3.1 Network settings

1. Connect the Ethernet cable to Outdoor Station, Indoor Monitor, and computer. Please keep them under **the same LAN**.

3.2 Fill 3CX accounts in the Oudoor Station

1. The followings are the steps to fill in **Proxy, Realm, User, UserID and Password** in the Oudoor Station.

- Step 1: After the settings, you can double click IP address of the Oudoor Station on the page of Remote Upgrade Tool to open the website. You can also put Oudoor Station's IP address in the browser's search bar to log in its webpage with account: Admin and password: 123456.
- Step 2: Go to VOIP to fill in Proxy and Realm. Both of their IP address should be 3CX Server's IP address such as Proxy: sip:192.168.0.104 and Realm: 192.168.0.104.

	Streaming Media Solution
Main Network Device	SIP Settings
Access VOIP Forward Advanced PhoneBook Logout	Proxy: sip:192.168.0.104 Realm: 192.168.0.104 Outbound: sip: STUN IP: 192.168.12.40 STUN Port: 5060 H.264: 102
	User: 102 UserId: JbsdbDSnJ3 Password: •••••••• Timeout: 120s × Ringing: 35s ×

Step 3: Still on the page of VOIP, please fill in User, UserID and Password of 3CX Server's User you want to distribute to Oudoor Station. User is the Extension number of 3CX Server. UserID is the ID of Extension and Password is the Password of the extension. Remember to tick **SIP enable** and then **Submit** after filling in Proxy, Realm, User, UserID and Password.

	Streaming Media Solution
Main Network	SIP enable:
Access VOIP	Proxy: sip:192.168.0.104
Advanced PhoneBook Logout	Kealm: 192.168.0.104 Outbound: sip: STUN IP: 192.168.12.40
	STUN Port: 5060 H.264: 102
	User: 102 UserId: JbsdbDSnJ3 Password: ••••••••
	Timeout: 120s V Ringing: 35s V
	Submit

Step 4: Go to Main page to check SIP is OK or not. If SIP is OK, then Oudoor Station is ready. If SIP is ERR, please make sure numbers are all correctly filled.

	Streamin	g Media Solut	ion	
Main Network Device Access V01P Forward Advanced PhoneBook Logout		Framewor Voip: MCU: SIP:	ork: 1.9.0 20211104 2.4.0 20210623 (std) 1.6.3 OK	Smart Home And Intercom System

3.3 Forward settings in the Oudoor Station or Villa Panel

1. Settings of **Apartment Outdoor Station**: In the web setting of Dnake Intercom, go to the section "Forward" over there you need to fill "RoomNo" and "Account No".

- RoomNo is the number you dial in the Outdoor Station.
- Both RoomNo and Account should be the same with the extension you filled in Indoor Monitor. For example, both RoomNo and Account should be 101 if the extension number (User in VOIP) is 101 in Indoor Monitor. Remember to Submit and then it will show up in the chart below.

(Both RoomNo and Account can be deleted by ticking up Delete, filling in the numbers you want to delete and Submit. The number you filled in will be deleted and disappear from the chart below.)

	Streaming Media Solution			Fos	
Main Network Device Access VOIP Forward Advanced PhoneBook	Forward Account Settings RoomNo: 101 Account: 101 Delete:				
Logout	RoomNo: Account: 101 101	RoomNo:	Account:	RoomNo:	Account:
	Streaming Media Solution			6	
	Forward Account Settings				
Main Network Device Access VOIP Forward Advanced PhoneBook	RoomNo: 101 Account: 101 Delete: 2				

After settings, you can dial RoomNo in the Outdoor Station to call the corresponding Extension.

2. Settings of **Villa Panel**: In the web setting of Dnake Intercom, go to the section "Forward" over there you need to fill "RoomNo" and "Account No".

• RoomNo in the Forward page should be the same as the RoomNo of Villa Panel in the Device page.

Device Setting	IS		
PuildNo	4		
UnitNo:	1	_	
RoomNo:	1		
No:	1		
Password:		-	
Mode:	Person	~	
Ringing:	35s	~	
Timeout:	120s	~	
Language:	English	~	
Media Volume:	6	~	
Talk Volume:	6	\sim	
Video:	1280x720	\sim	
Forward:	One by one	e Y	
Dial Mode:	Normal	~	
D200:			

• Account should be the same with the extension you filled in Indoor Monitor. For example, Account should be 101 if the extension number (User in VOIP) is 101 in Indoor Monitor. Remember to **Submit** and then it will show up in the chart below. (Both RoomNo and Account can be deleted by ticking up Delete, filling in the numbers you want to delete and Submit. The number you filled in will be deleted and disappear from the chart below.)

	S	treaming Media Solution			F.	5
Main	Forward Ac	count Settings				
Network Device	RoomNo:	1				
Access	Account:	101				
VOIP Forward Advanced	Delete:					
Others Debug	Submit					
Logout	RoomNo:	Account:	RoomNo:	Account:	RoomNo:	Account:
	1	101				
	-					

After settings, you can press the button in the Villa Panel to call the corresponding Extension.