

DNAKE

3CX & Dnake User Manual

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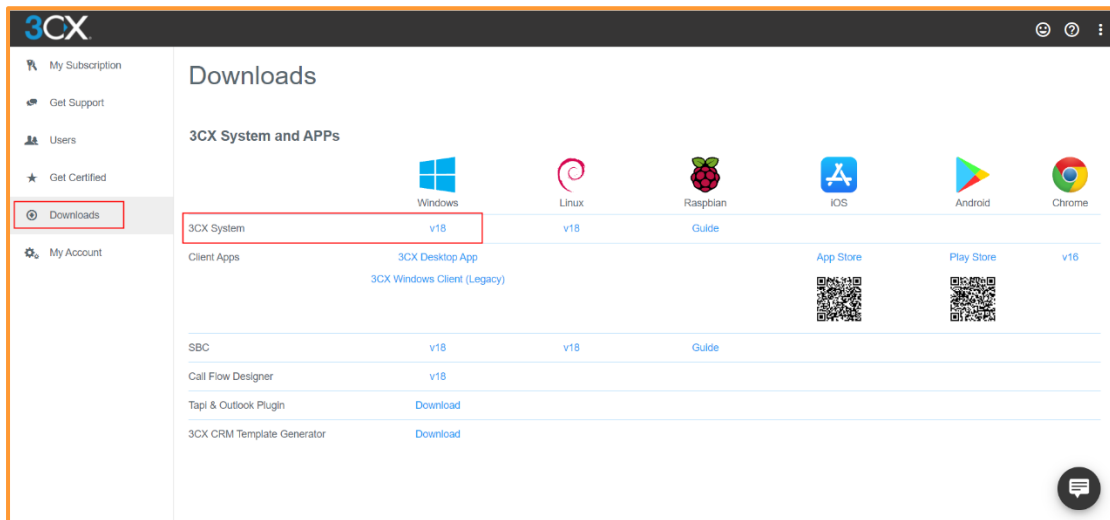
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1 Establishment of 3CX Server

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.

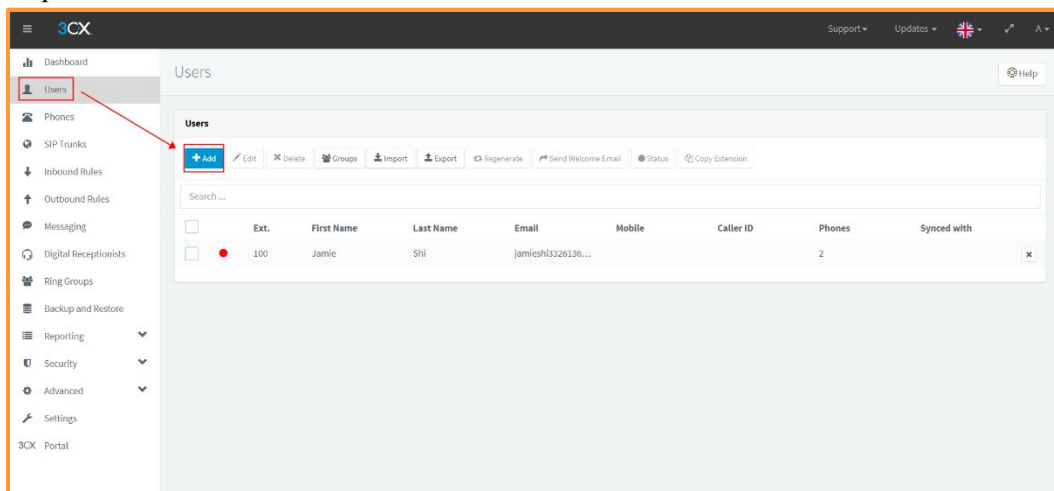


3. After downloading, login your 3CX Server.

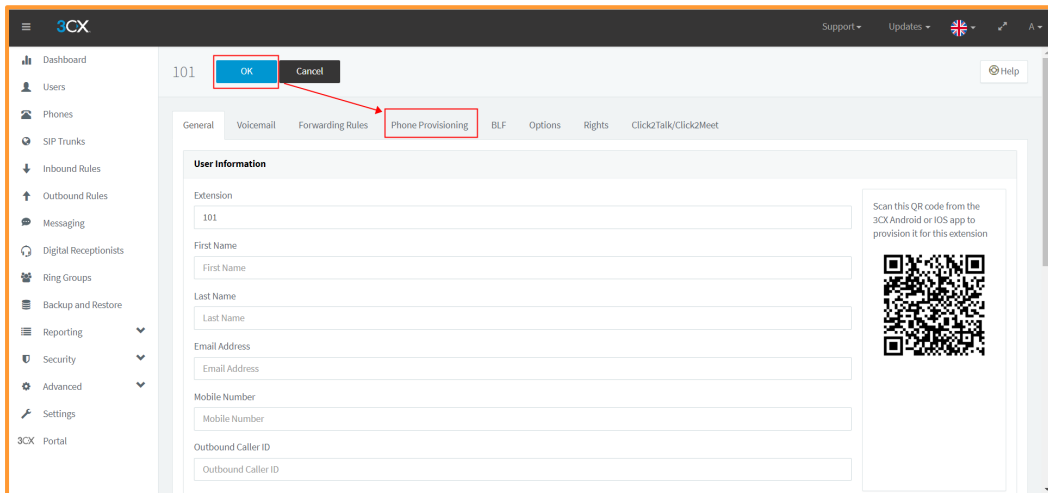
1.2 Add Users for Indoor Monitor and Outdoor Station

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

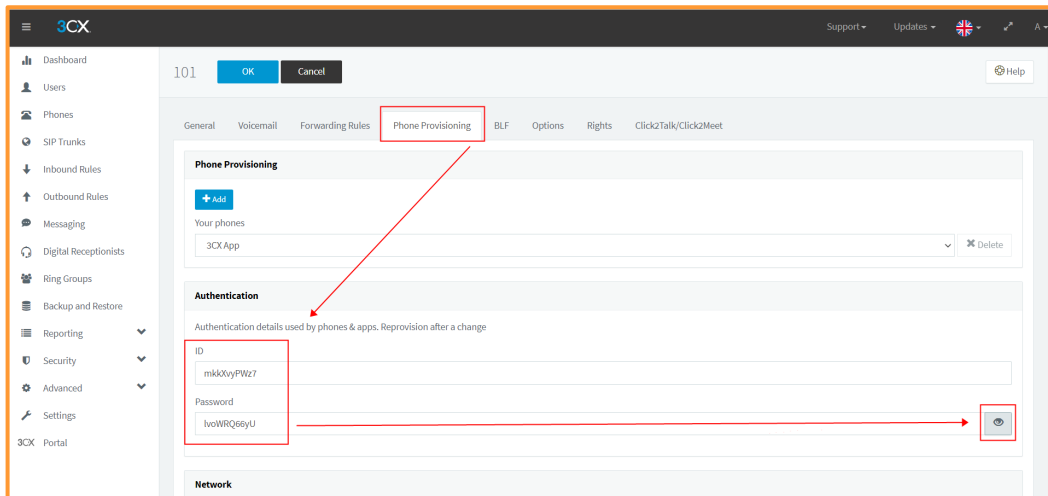
- ◆ Step 1: Login 3CX Server. Go to **Users** page.
- ◆ Step 2: Click **Add** to add users.



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



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



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/hgIDVYxB#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.

The screenshot displays the 'SIP Settings' configuration page in the 3CX web interface. On the left, a green sidebar contains a menu with 'VOIP' highlighted. The main area is titled 'SIP Settings' and contains the following fields:

- SIP enable:**
- Proxy:** sip:192.168.0.104
- Realm:** 192.168.0.104
- Outbound:** sip:
- User:** 101
- UserID:** kYfUvQcrG7
- Password:** [masked]
- Transport:** TCP
- Timeout:** 300s
- Voice Multicast:** 224.0.2.1:50001

A 'Submit' button is located at the bottom of the form.

- ◆ 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

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.

The screenshot shows the 'SIP Settings' page. On the left is a green sidebar menu with options: Main, Network, RoomNo., VOIP, Advanced, Webkit, Others, License, and Logout. The 'VOIP' option is highlighted with a red box and an arrow pointing to the 'SIP enable' checkbox, which is checked. Below this are several input fields: Proxy (sip:192.168.0.104), Realm (192.168.0.104), Outbound (sip:), User (101), UserID (kYfUvQcrG7), Password (masked with asterisks), Transport (TCP), Timeout (300s), and Voice Multicast (224.0.2.1:50001). A 'Submit' button is located at the bottom of the form.

- ◆ 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.

The screenshot shows the 'Main' page. The sidebar menu is the same as in the previous image, but 'Main' is now highlighted with a red box and an arrow pointing to the 'SIP: OK' status. The main content area is titled 'Smart Home And Intercom System' and displays the following system information: Framework: 1.9.0 20211104, Voip: 1.3.2 20210607 (std), Security: 1.0.5 20170412 (std), Smart: ERR, and SIP: OK. The 'SIP: OK' status is highlighted with a red box.

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/hgIDVYxB#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 Outdoor Station

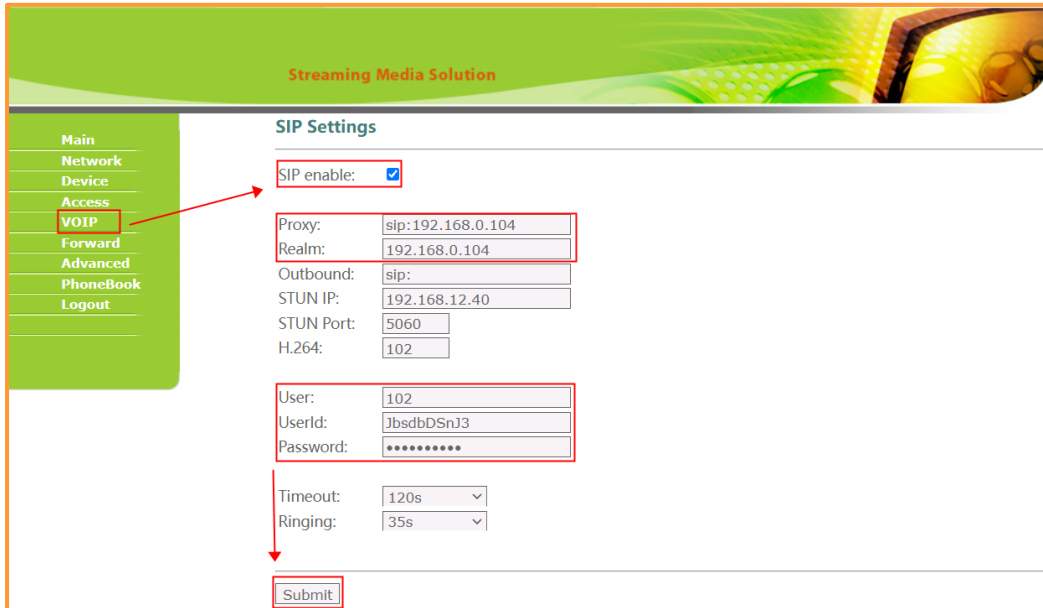
1. The followings are the steps to fill in **Proxy, Realm, User, UserID and Password** in the Outdoor Station.

- ◆ Step 1: After the settings, you can double click IP address of the Outdoor Station on the page of **Remote Upgrade Tool** to open the website. You can also put Outdoor 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.

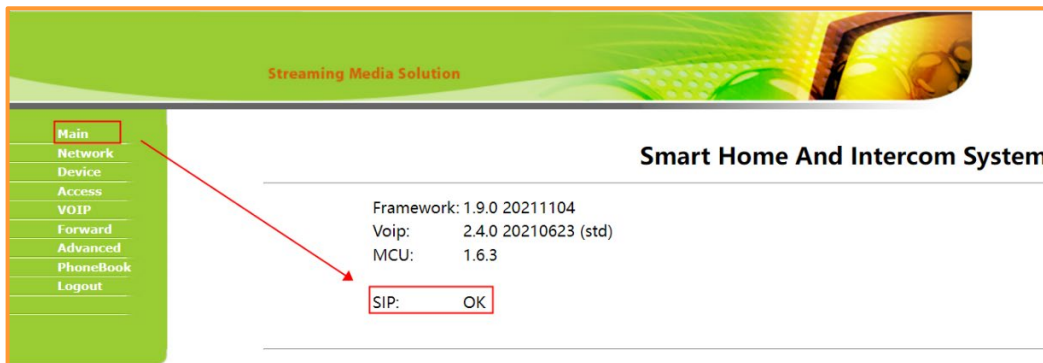
The screenshot shows the 'SIP Settings' page in the Outdoor Station web interface. The page title is 'Streaming Media Solution'. The left sidebar shows a menu with 'VOIP' highlighted. The main content area is titled 'SIP Settings' and contains several input fields: 'SIP enable' (checked), 'Proxy' (sip:192.168.0.104), 'Realm' (192.168.0.104), 'Outbound' (sip:), 'STUN IP' (192.168.12.40), 'STUN Port' (5060), 'H.264' (102), 'User' (102), 'UserId' (JbsdbDSnJ3), 'Password' (masked with dots), 'Timeout' (120s), and 'Ringing' (35s). A 'Submit' button is at the bottom. Red boxes and arrows highlight the 'VOIP' menu item and the Proxy, Realm, User, and Password fields.

- ◆ 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 Outdoor 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.



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



3.3 Forward settings in the Outdoor 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

Forward Account Settings

RoomNo:

Account:

Delete:

RoomNo:	Account:	RoomNo:	Account:	RoomNo:	Account:
101	101				

Streaming Media Solution

Forward Account Settings

RoomNo:

Account:

Delete:

RoomNo:	Account:	RoomNo:	Account:	RoomNo:	Account:

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.

Streaming Media Solution

Device Settings

BuildNo:

UnitNo:

RoomNo:

No:

Password:

Mode:

Ringing:

Timeout:

Language:

Media Volume:

Talk Volume:

Video:

Forward:

Dial Mode:

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.)

RoomNo:	Account:	RoomNo:	Account:	RoomNo:	Account:
1	101				

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