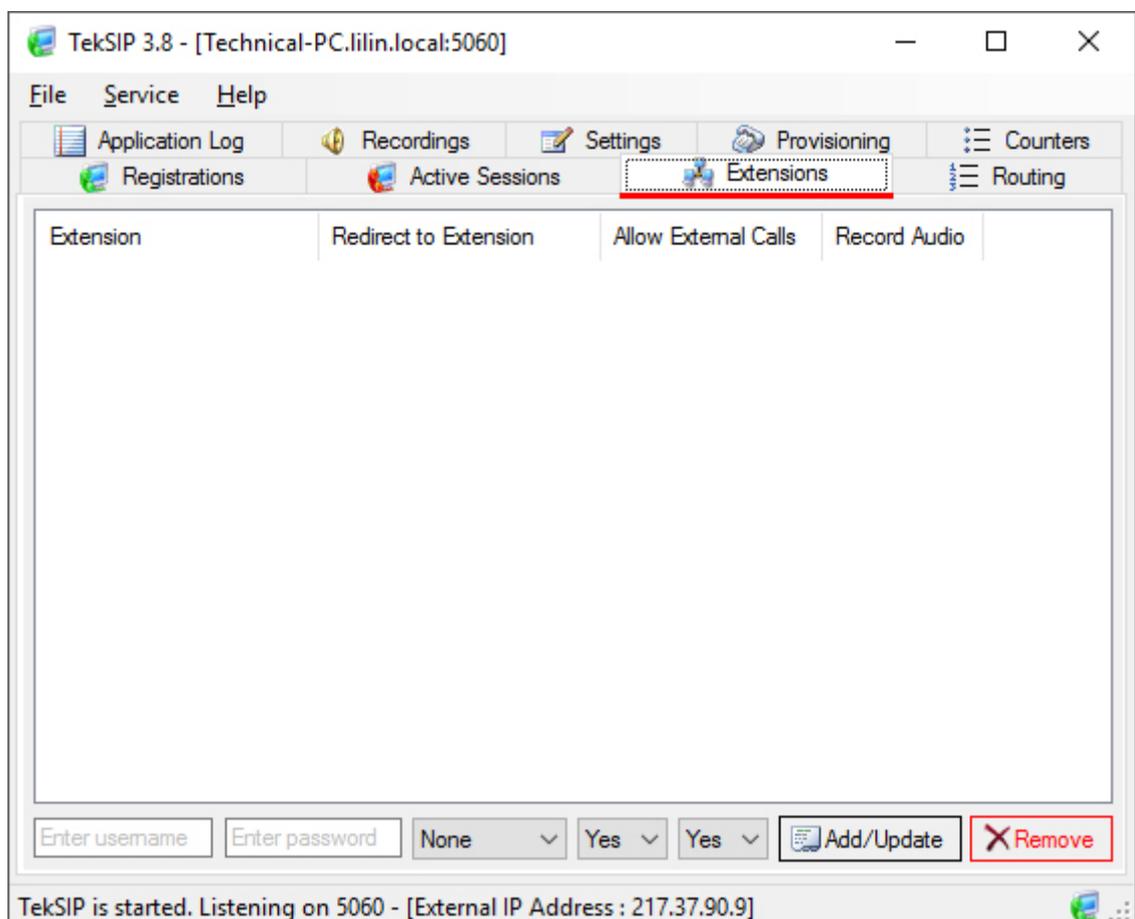




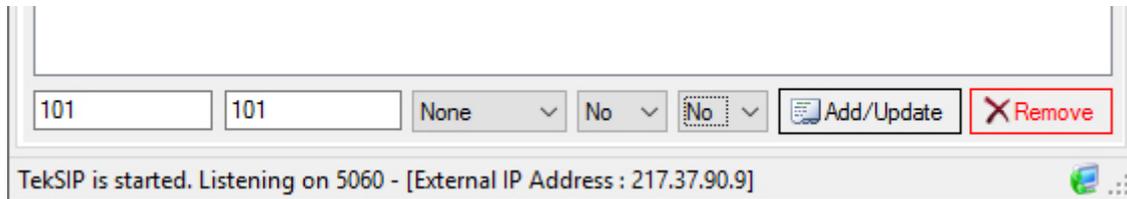
# Testing a LILIN Door Station using SIP on a local network with a PC based SIP server

- 1) Download **TekSip 3.8** or above from the following link –  
<http://www.kaplansoft.com/download.html>
- 2) Install TekSip. Once TekSIP has been installed, run the software.
- 3) Find out the IP address of the PC you have installed TekSIP on, this IP address will be required later in this guide.
- 4) Now select '**Extensions**' from the option tabs at the top of TekSIP.

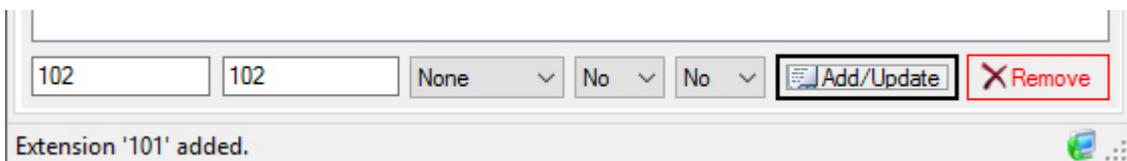


- 5) At the bottom of the **Extension** page, enter the following information in the boxes (as shown in the image below) then click '**Add/Update**'.

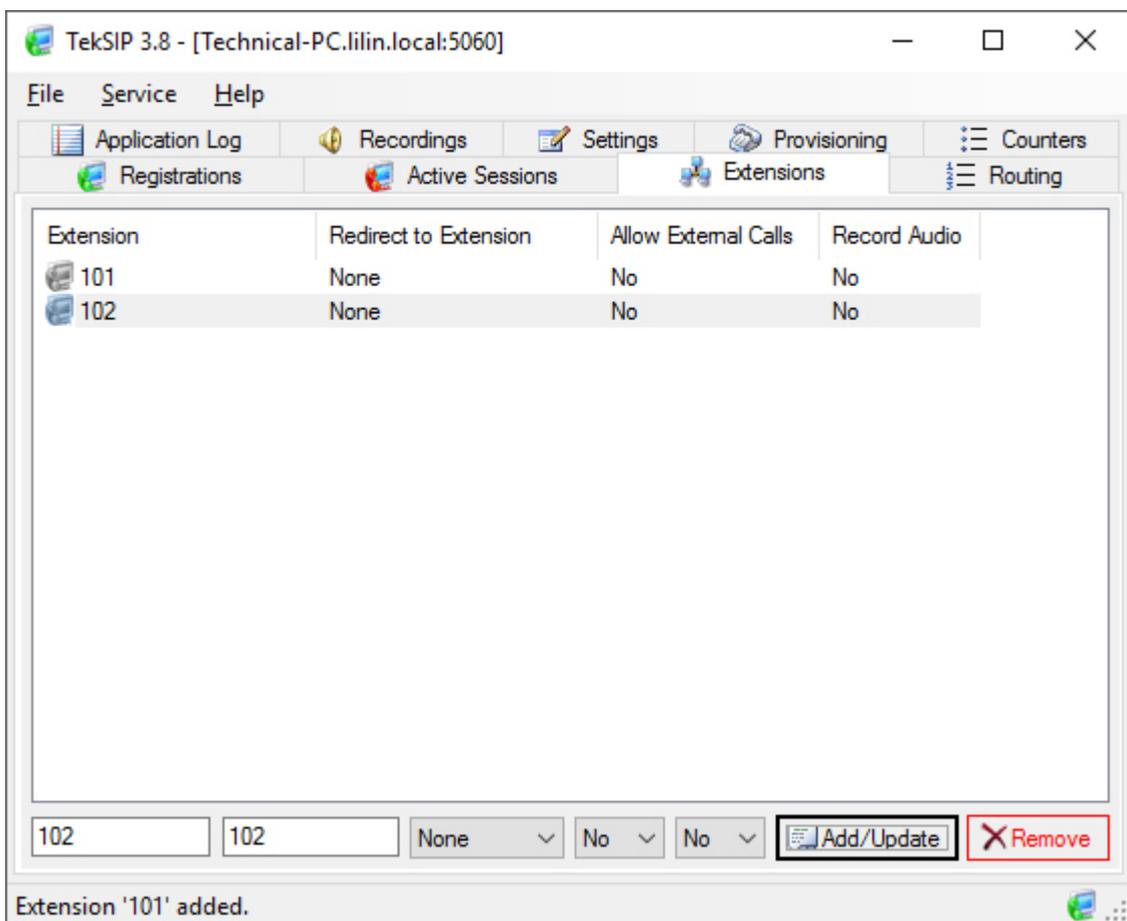
- Username – 101
- Password – 101
- None
- NO
- NO



6) Now repeat the process but use **102** instead of **101**.



7) Once these have both been added to your TekSIP software, the extensions screen should look like below:



- 8) Next, log in to your LILIN door station (This guide assumes your LILIN door station is already correctly configured and working on your network). First confirm the firmware version of the door station is **v3.1.68** and above.

The screenshot shows the LILIN web interface. At the top, there is a navigation bar with 'Live | Basic Mode | Advance Mode | Language | Logout'. Below it is a menu bar with 'System', 'Video / Audio', 'Network', 'Event', 'Notification', and 'Maintenance'. On the left, there is a sidebar with 'General', 'User', 'Timer', and 'System Log'. The main content area is titled 'Advance >> System >> General'. It displays various system information: MAC Address (00:0f:4c:4E:D3:A2), Firmware Version (3.1.68, highlighted with a red box), OS Version (Linux 3.10), System Reboot Time (2016/11/16 00:12:49), Device Name (IPC0522), and several OSD Font Size settings (all set to 1). There are also radio buttons for 'OSD Font', 'OSD Timer', 'ActiveX OSD Display', and 'ActiveX Low Latency Mode', all of which are currently set to 'Disable'. A 'Submit' button is located at the bottom of the form.

- 9) Go to **'Setup'** on the top right hand side of the camera's live screen, then select **'Advance Mode'**, now select **'Network'** from the top bar and then **'SIP'** from the bar on the left.

The screenshot shows the LILIN web interface. At the top, there is a navigation bar with 'Live | Basic Mode | Advance Mode | Language | Logout'. Below it is a menu bar with 'System', 'Video / Audio', 'Network', 'Event', 'Notification', and 'Maintenance'. On the left, there is a sidebar with 'General', 'General IPv6', 'HTTP/RTSP Service', 'HTTPS Service', 'Multicast', 'IP Address Filtering', 'DDNS', 'UPnP', 'Bonjour', 'SDDP / Heartbeat', 'SNMP', and 'SIP'. The main content area is titled 'Advance >> Network >> SIP'. It displays various SIP settings: 'VOIP' is set to 'Enable' (radio button selected), 'SIP Domain Server' is 192.168.67.215, 'Registration Username' is 102, 'Registration Password' is masked with dots, 'Registration Expires' is 30, 'SIP Port' is 5060, 'Audio RTP-Port' is 7078, and 'Video RTP-Port' is 9078. There is a 'Submit' button. Below this, there are additional fields: 'Extension' (Ext. 1), 'Remote Username' (101), 'Remote IP' (192.168.67.215), and 'Remote Port' (5060). The 'Call Status' is 'Ready'. At the bottom, there are three buttons: 'Submit', 'Call', and 'End'.

- 10) Turn the VOIP option to **'Enabled'**.

Next enter the IP address of the PC you installed TekSIP on to in the **'SIP Domain Server'** input box.

In the 'Registration Username' input box enter: **102**

In the 'Registration Password' input box enter: **102**

For basic testing, please leave the rest of the options default.

Now click the **submit** button under the top section and your camera will reboot.

**LILIN** Live | Basic Mode | Advance Mode | Language | Logout

System Video / Audio Network Event Notification Maintenance

General  
General IPv6  
HTTP/RTSP Service  
HTTPS Service  
Multicast  
IP Address Filtering  
DDNS  
UPnP  
Bonjour  
SDDP / Heartbeat  
SNMP  
SIP

Advance >> Network >> SIP

VOIP  Enable  Disable

SIP Domain Server 192.168.67.215

Registration Username 102

Registration Password ●●●

Registration Expires 30

SIP Port 5060

Audio RTP-Port 7078

Video RTP-Port 9078

Submit

Extension Ext. 1

Remote Username 101

Remote IP 192.168.67.215

Remote Port 5060

Call Status Ready

Submit Call End

Once your camera has rebooted go back to the SIP screen and enter the following information in the bottom section of the SIP screen.

- Extension leave as 'EXT. 1'
- Remote Username enter: 101
- Remote IP enter the IP address of the PC that TekSIP is installed on.
- Leave the Remote Port as default

Now click the **submit** box located on the bottom section of the SIP screen.

Your camera has now been configured.

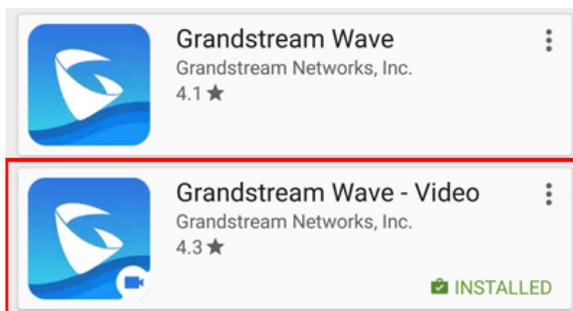
- General
- General IPv6
- HTTP/RTSP Service
- HTTPS Service
- Multicast
- IP Address Filtering
- DDNS
- UPnP
- Bonjour
- SDDP / Heartbeat
- SNMP
- SIP

Advance &gt;&gt; Network &gt;&gt; SIP

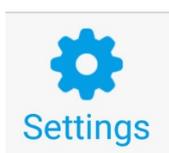
VOIP	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
SIP Domain Server	192.168.67.215
Registration Username	102
Registration Password	●●●
Registration Expires	30
SIP Port	5060
Audio RTP-Port	7078
Video RTP-Port	9078

Extension	Ext. 1
Remote Username	101
Remote IP	192.168.67.215
Remote Port	5060
Call Status	Ready

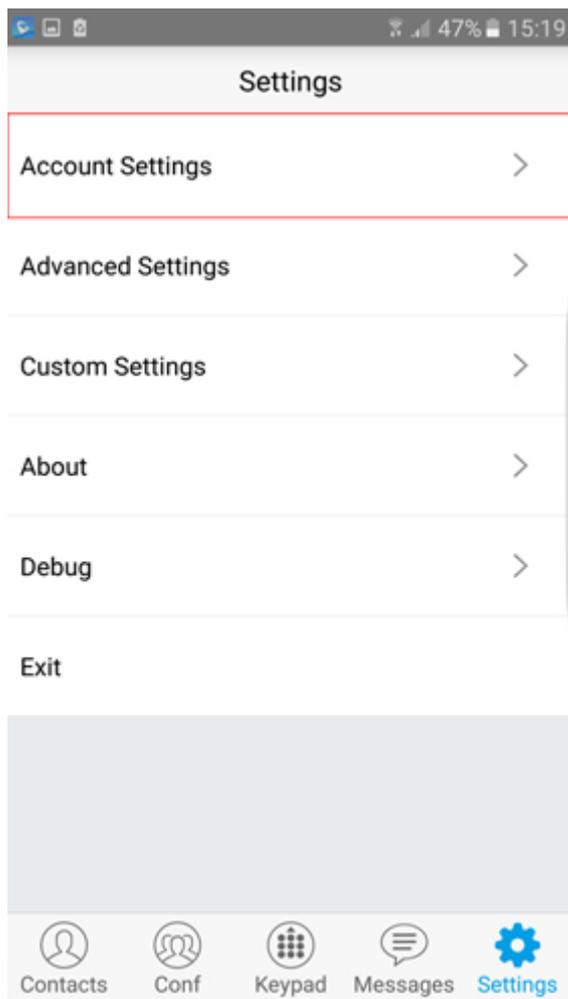
- 11) Now you will need to download a SIP soft phone client for your mobile phone, it is recommended to download 'Grandstream Wave'. If you are on a Google Android device download 'Grandstream Wave – Video' on an Apple device there is only 1 Grandstream App available.



- 12) Open Grandstream Wave and select the 'Cog' icon from the bottom right hand side of the screen.



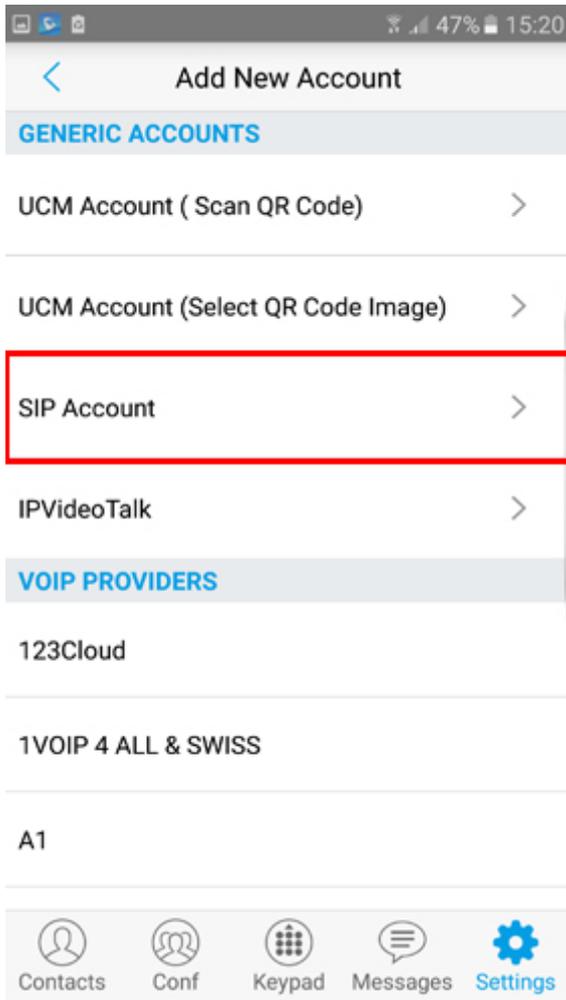
13) Now select Account Settings



14) Now select the + icon at the top of the screen.



15) Once you have clicked the + icon, select 'SIP Account'



16) Now enter the following information in the account screen:

Activate Account – On

Account Name – 101

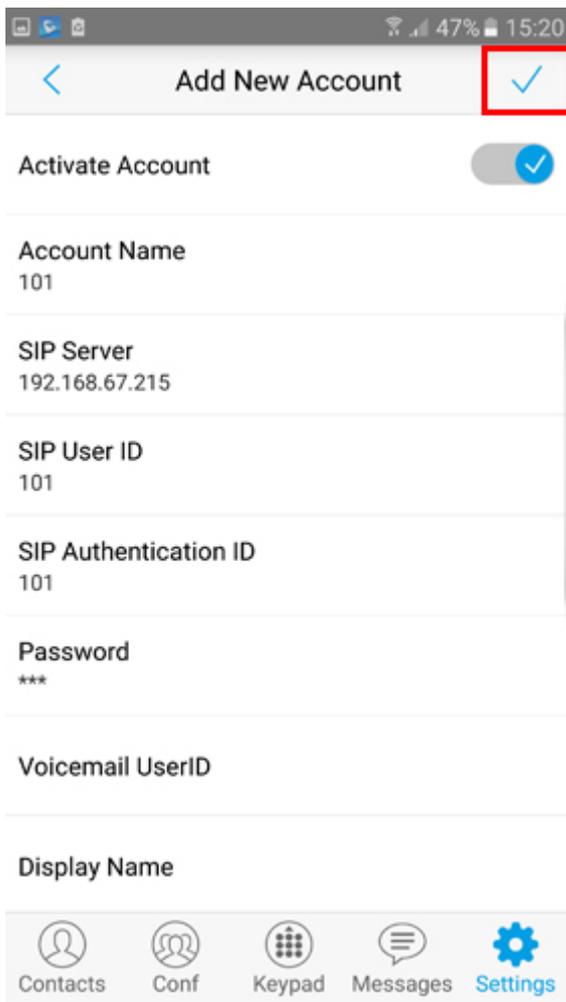
SIP Server – The IP address of your PC running TekSIP

SIP User ID – 101

SIP Authentication ID – 101

Password – 101

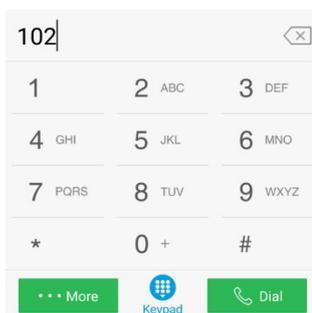
Next press the 'Tick' at the top of the screen.



- 17) Now go back to TekSIP and select 'Extensions' once again. You should now see both entries have a green active icon to their left hand side, this indicates that both the mobile soft phone and the LILIN door station have authenticated with the SIP server.



- 18) Now go back to the Grandstream App and select the Keypad and type 102 and click ...more then select 'Video Call'.



Local Call
Video Call
Paging
New Contact
Cancel

19) Your mobile device should now call the LILIN Door station and you should receive both Audio and Video via SIP.

20) You should also now be able to press the call button on the LILIN Door station and the door station should call the mobile device and also provide video and audio.

21) If you press the door station call button but do not get your mobile soft phone ringing, log back in to the door stations web page.

Select 'Setup' then 'Event' then 'Door station'.

Under SIP Extension ensure that '1' is selected and click submit.

The screenshot shows the LILIN web interface. At the top, there is a navigation bar with the LILIN logo and links for 'Live | Basic Mode | Advance Mode | Language | Logout'. Below this is a menu with tabs for 'System', 'Video / Audio', 'Network', 'Event', 'Notification', and 'Maintenance'. The 'Event' tab is selected, and the breadcrumb path is 'Advance >> Event >> Door Station'. On the left side, there is a list of event types: 'Event', 'Motion Detection', 'Tamper Detection', 'Audio Detection', 'Alarm Detection', 'Network Detection', 'Vandal Button', 'Door Station', and 'Door Station Advance'. The 'Door Station' option is selected. The main configuration area for 'Door Station' includes:
 

- Event Name: (empty)
- Button LED:  Off  On  Flashing
- Ring Button:  Night  Constant On
- White LED:  Off  On
- Audio Playback: None
- SIP Extension: 1 (highlighted with a red box)
- Dwell Time: 5 Sec. (for both Ring Button and White LED)

 At the bottom right, there are 'Submit' and 'Cancel' buttons.

22) Now the Door Station call button will call the details that have been added to Ext.1 on the Door Stations SIP screen

- General
- General IPv6
- HTTP/RTSP Service
- HTTPS Service
- Multicast
- IP Address Filtering
- DDNS
- UPnP
- Bonjour
- SDDP / Heartbeat
- SNMP
- SIP

Advance >> Network >> SIP

VOIP  Enable  Disable

SIP Domain Server

Registration Username

Registration Password

Registration Expires

SIP Port

Audio RTP-Port

Video RTP-Port

Extension

Remote Username

Remote IP

Remote Port

Call Status Ready