

Using Linphone with Comrex ACCESS and BRIC-Link

Introduction

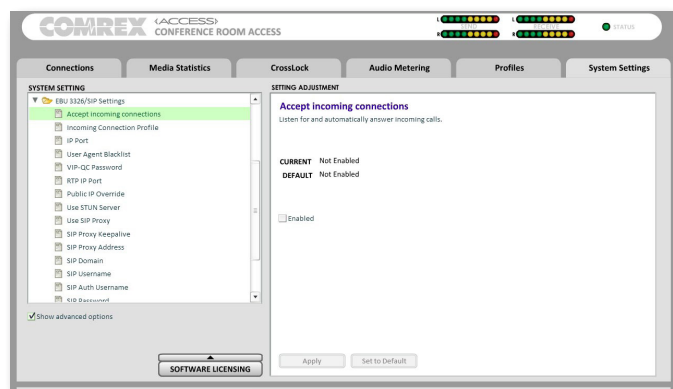
Linphone is a free SIP calling app available for iPhone, Android, and other platforms. Linphone supports the **Opus** codec, and is a great way to connect to these products from smartphones.

Opus is supported in ACCESS and BRIC-Link 3.0 firmware and higher.

For those users that have ACCESS or BRIC-Link on a local LAN, you should enable the “**SIP ALG**” function on your router or firewall. If this is not possible, forward these ports to your codec: **UDP 5060, UDP 6014, and UDP 6015**. If you are unsure of how to do so, please contact your IT administrator, or techies@comrex.com, for suggestions.

Setting up the ACCESS and BRIC-Link

In order to connect via SIP, you must make a few changes on the ACCESS web configuration page. This process is outlined here:



- Log into the Web Interface
- Click on **System Settings** Tab
- Check **Show Advanced Options** checkbox

- Expand ***EBU 3266/SIP Settings**
- **Accept Incoming Connections:**
Set to *Enabled*

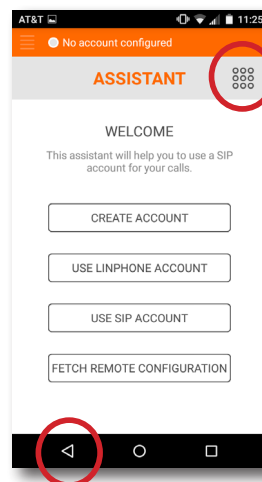
*If running with firmware below 4.0, this will be called **N/ACIP SIP Settings**.

Linphone for Android

- 1) Download and install Linphone from the Play Store
- 2) Open Linphone
- 3) You will see the main welcome screen with a warning on top “**No account configured**”

Ignore this, since an account is not needed to connect to an IP address.

- 4) Press the top right dial menu or the back button at the bottom of the screen.



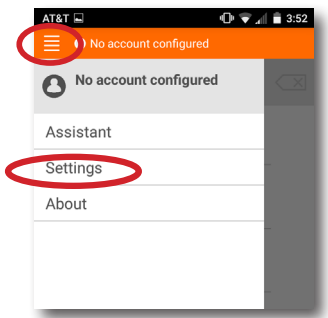
Special Note: Depending on your Android firmware, LinPhone may ask for additional permissions once you reach the dialing screen. You can deny the following permission requests:

Access to your contacts

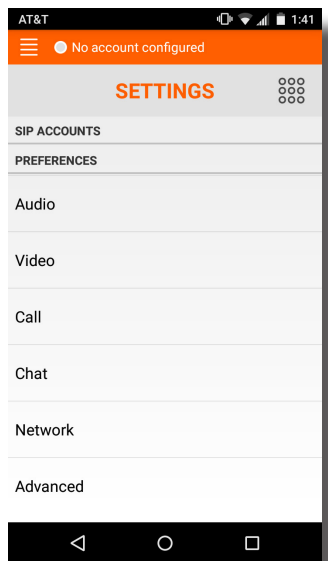
Make and manage phone calls

Access photos, media, and files on your device

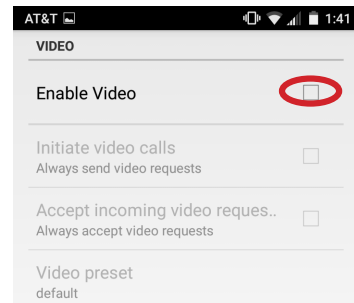
5) Select the top left options menu and select **Settings**.



This Settings menu will appear.



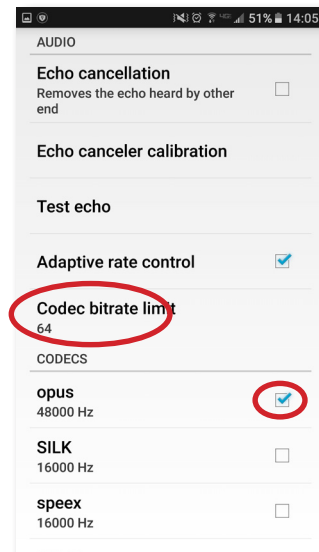
6) Select **Video** and deselect **Enable Video**



Press **“Back”**

Choose the **Audio** option

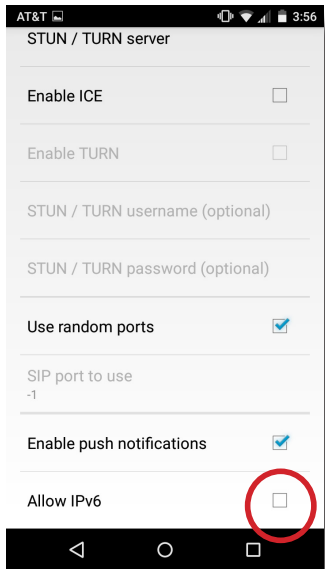
7) Deselect every codec option except **Opus** and then select **Codec bitrate limit**



Change to **64kbps**

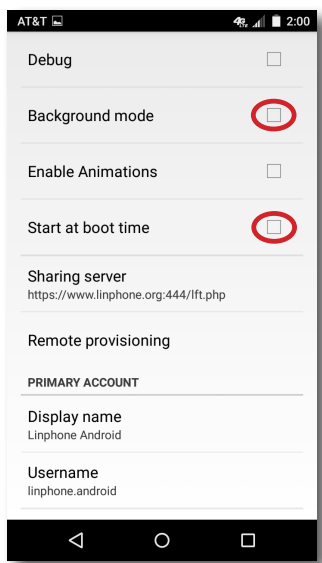
Press **“Back”**

8) Choose **Network** and deselect **Allow IPv6**



Press **“Back”**

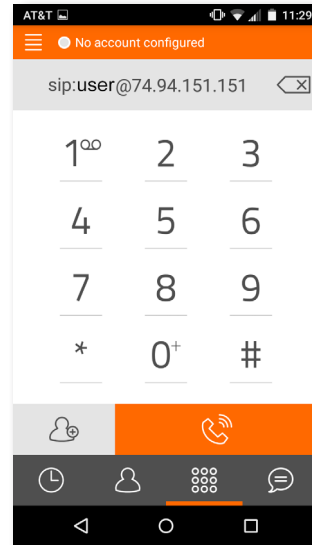
9) Choose **Advanced** and deselect **Background mode** and **Start at boot time**



Press **“Back”** twice to return to the dialing screen

10) Tap the area of the dialing screen that says **“Enter a number or an address”**

This will open the keyboard



11) Enter the address of your ACCESS or BRIC-Link like this:

sip:user@<IP_address>

e.g. sip:user@74.94.151.151

You may also store this as a contact and dial from your contact list

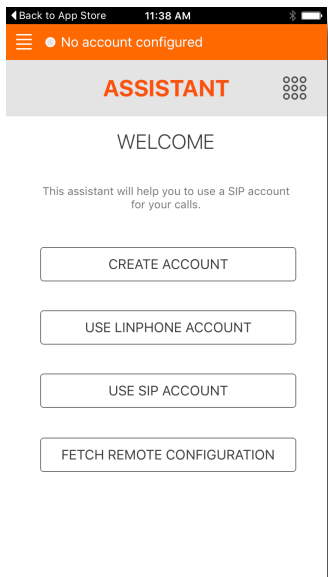
12) Press the **“phone”** icon to make a call

Special Note: Depending on your Android firmware, LinPhone may ask for permission to record audio. You MUST select allow or it will not transmit audio.

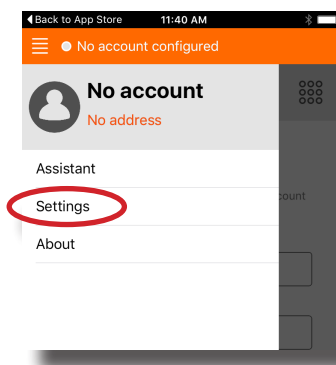
Linphone for iPhone

- 1) Download and install Linphone from the App Store
- 2) Open Linphone
- 3) You will see the main welcome screen with a warning on top **"No account configured"**

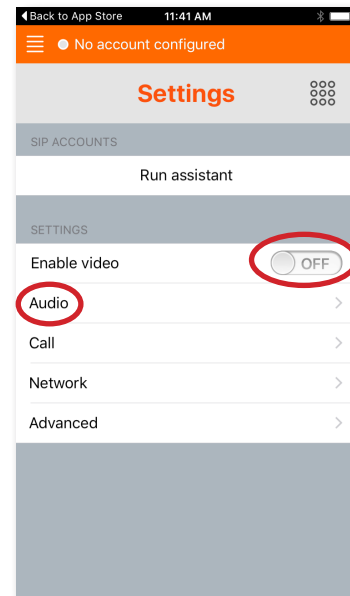
Ignore this, since an account is not needed to connect to an IP address.



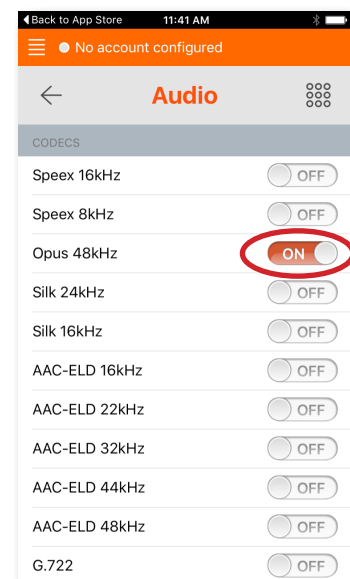
- 4) Press the top left menu to open the options menu and select **Settings**.



- 5) Under the Settings menu, turn **Enable video** to **OFF** then choose **Audio**



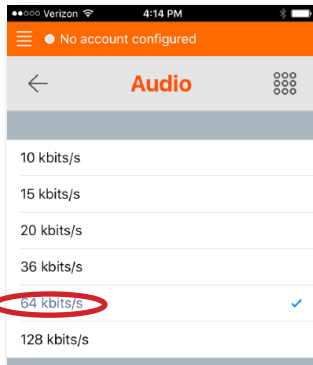
- 6) Deselect every codec option except **Opus**



Press **"Back"**

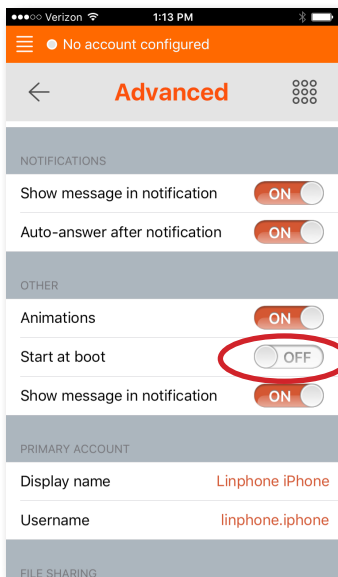
6) Scroll to the bottom of this list and choose **Codec bitrate limit**

Select **64 kb/s**

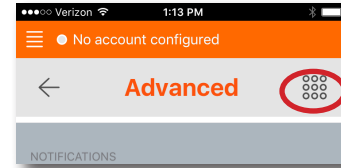


7) Press the **“Back”** arrow and then select **Advanced**

8) Change **Start at boot** to **OFF**

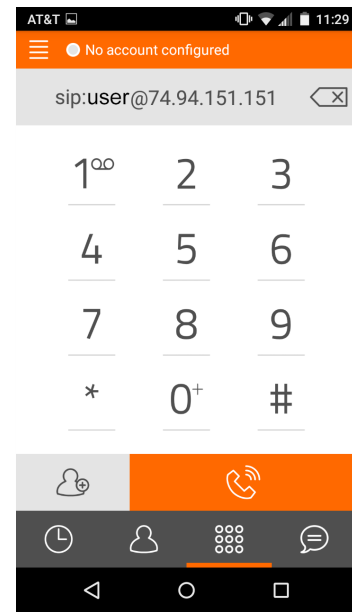


9) Go to the dialing screen by pressing the large dialpad icon in the top right



10) Tap the area of the dialing screen that says **“Enter a number or an address”**

This will open the keyboard



11) Enter the address of your ACCESS or BRIC-Link like this:

sip:user@<IP_address>

e.g. sip:user@74.94.151.151

You may also store this as a contact and dial from your contact list

12) Press **“Join”** to make a call