

Installation Guide Recommended Softphone Apps for use with Crux LX & VX

Edition 2.0 June 2024

Feel free to ask us any questions! via Email: support@crux-labs.com via Live Chat: www.crux-labs.com via Phone: +65 6229 7800

Supported Operating Systems







Hola Amigo!

Welcome to second edition of Recommended Softphone Apps instruction guide from Crux Labs.

While one may use any SIP Client or SIP Dialer app that allows configuring a SIP account with <u>Username</u>, <u>Password</u> and <u>SIP</u> <u>Server IP or DDNS</u>, alongside Crux, but since there are so many such apps, to save our users the trouble of selection, we have shortlisted six apps that are feature rich, safe to use, available across popular platforms, and have passed testing with Crux.

Hope this guide comes in handy for you.

Adios for now! from Team Crux Labs

Need help? Feel free to write to us at support@crux-labs.com



Crux Labs Recommended Softphone Apps

#	DEVICE TYPE	NAME OF THE SOFTPHONE APP	OPERATING SYSTEM	PAGE
1		PortSIP Softphone		5
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4		Groundwire		12
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HANG ON!

99.999% USERS WHO IGNORED IMPORTANT INSTRUCTIONS FAILED TO SETUP SOFTPHONE APP SUCCESSFULLY!

IMPORTANT INSTRUCTIONS

PASSWORDS When in school, we might not have minded our cAsEs or char@cters but here we ought to. Read, Copy, Type passwords carefully else your app will get **blocked** and fail registration coz Crux doesn't ignore silly mistakes!

PERMISSIONS As we all know, 'No means, No!'. So, when installing this App, if you say 'No' to use of phone mic, speaker, storage, camera, or deny permission to run the App in background or wake up on push notifications, then it **won't**. At times 'Yes' is good! This is one such time.

NOTIFICATIONS Once I missed a call from my spouse as I had turned off notifications on my mobile. I am single now. Okay, don't get ideas! Turn '**On**' notifications, please.











Crux Labs PortSIP Softphone



Account Setup & Troubleshooting



or Apple AppStore and install it with requisite permissions.

Next, to setup your Account, key in your username, password and Crux IP or DDNS as SIP Server.

A Green dot indicates Registration Success. You're online and ready for calls!

If the App shows • Green dot on WiFi but not on Mobile Data, then click 'Advanced' & ensure 'Mobile Network' is Enabled.

If you face audio issues, for e.g. unable to hear the other party. then Enable codecs and their order exactly as shown above.

Mobile Data but not on WiFi, then click 'Settings' > 'Account' > 'Transport Protocol' and change it from UDP to TCP.



Crux Labs Grandstream Wave Lite





Cost	FREE
Pros	 Add up to 6 accounts Works well on Android Low battery consumption Intuitive interface
Cons	 No Push Notifications Not suitable for iPhone Support has ended
OS support	
App version	1.0.3.34
Where to find	Download from web Crux Labs
	/



Crux Labs Grandstream Wave Lite



Account Setup





Grandstream Wave Lite



Troubleshooting



Problem #A Account **Registers on WiFi but** not on Mobile Data.

Solution #A

Step 1 – Go to 'Advanced Settings'



Step 2 – Scroll down to 'Network Settings' and **DISABLE** 'Only Use WiFi to Register Account' option.



Solution #B & #C Common Step 1 – Go to 'Account Settings'

Step 2 – Scroll down to 'SIP Settings' > 'Transmission Protocol' > change its value from UDP to TCP.

Keypad

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Setting

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Messages

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CODEC SETTINGS	
DTMF	>
Preferred Vocoder	>
H.264 Image Size	>
Video Bit Rate	>
SDP Bandwidth Attribute Media Level	>
H.264 Payload Type 105	
SRTP Mode Disable	>
Enable SRTP Key Life Time	
Enable RFC5168 Support	×
Contacts Conf Keypad Messages	Settings
• • •	

Problem #C Call connects but | cannot hear the other person. Solution #C Go to 'Account Settings' > 'Preferred Vocoder'



Step 2 – Ensure your App has same selection and order of codecs as shown above for both WiFi & Mobile networks.







	COST	FREE
	Pros	 Free and Open Source Works on all platforms Add multiple accounts Built-in H264 video codec
	Cons	• Wakeup issues reported on some mobile models
	OS support	
	App version	5.2.4 or higher
	Where to find	GET IT ON Google Play
J		Download on the App Store



permissions.



Account Setup & Troubleshooting



Next, to setup your Account, click the burger menu > then select 'Assistant'

On the 'Assistant' screen, select the option 'Use SIP Account' since your SIP account is already present on Crux.

On the 'Use SIP Account' screen, key in your username, password and Crux IP or DDNS as Domain, then click 'Login'.

Green dot indicates Success. You're now ready for calls! • Red dot indicates Failure. Contact Admin / Crux Labs CS. ring when the App is closed or when the App is running in the background.







<image/>	
A total B total B total B total Instal Instal	Groundwire: VoIP SIP Softphone Acrobits, s.r.o. In-app purchases
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3.3	Ratings and reviews are verified and are from people who use the same type of device that you use \odot
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Cost	US\$ 9.90
Pros	 Works well on iPhones Consistent delivery of incoming calls on iPhone Uses Push Notifications
Cons	Purchase (\$\$) required Some Android users may face call wakeup issues
OS support	αιοςτοιος iOS
App version	5.10 or higher
Where to find	GET IT ON Google Play
	App Store



Softphone

crobits, s.r.o

About this ann

ntuitive VoIP diale

3.3

install.

Google Play

App Store

Ratings and reviews

• • •



Registering indicates

Failure. Contact Crux

Labs CS for support.

Account Setup & Troubleshooting



On first run, permit the App to use Push Notifications for Incoming Calls, lest you may miss incoming calls.

Next, click 'Generic SIP Account' to setup your Crux Extension as an Account.



In case you face issue with receiving incoming calls, go to 'Advanced Settings' > 'Incoming Calls' > Enable 'On with Push'.











Crux Labs PortSIP Softphone



Account Setup & Troubleshooting













Linphone Account Setup & Troubleshooting



	USE A SIP ACCOUNT	S Linphone	C Linphone	64013355/ X
\mathbf{C}	Username Display name (optio 200	▲ linphone 4 sip:linphone@192.168	• 200 ← 5	6 64013357 C (a) 6401357 C (a) 6401357
INVITE YOUR FRIENDS ACCOUNT ASSISTANT	SIP Domain cruxlabs.ddns.net	sip:linphone@192.168.0.84:62699		6 46113357 6 46113357 6 46113357 6 46113357 9 4011
Invite your friends on L C The manage you	Password			sip.64013357@4.162
	••••••	Presence status		S Lipphone - Settings
INVITE	Transport	Available V	CONTACTS	Ω SID accounts \square Audia \square 1 Middas β Calls and Chet \square^{α} Network
	UDP v	Active account		
		sip:linphone@192.168.0.84:62699 ~		
	BACK	sip:linphone@192.168.0.84:62699		Audio parameters 🖛 9
	3	sip:200@cruxlabs.ddns.net		Playback device WASAPI: Speakers (Conexant SmartAudio HD) 🗸
WELCOME				Contrust de lies Massachers /Consumt Straut Audio
This assistant will help you configure and use your imprione acc		Presence status		Capture device wASAPI: Microphone (Conexant SmartAudio *
2		Available Y		Ringer device WASAPI: Speakers (Conexant SmartAudio HD) 🗸
CREATE A LI HONE ACCOUNT USE A LINPHONE ACCOUNT USE A SIP ACCOUNT FETCH REMOTE CONFIGURATION		sip:200@cruxlabs.ddns.net		Ring notes_of_the_optimistic.mkv
		ок		Enable echo cancellation

- 1. Download **Linphone** installable from **linphone.org website** and install it with requisite permissions.
- 2. Click on Home tab on top-left column, then select 'Assistant' and Use SIP Account to start the setup.
- 3. Key in Username, SIP Domain, Password given by your Admin or Crux Labs staff and Transport as UDP.
- 4. Linphone App comes with a default Account. After adding your Crux Extension as a 'SIP Account', click on top-left corner to select your Crux Account so as to use that to make calls.
- 5. A Green dot indicates **Registration Success**. You're now ready for calls!
- 6. A Red dot indicates Failure. Contact Admin / Crux Labs CS.

- 7. Type the phone number in the text input box on top of the App window and press Call Icon to make a call.
- 8. If using an external Mic or Speaker or Headset, go to Preferences,
- 9. Then, under the Audio tab, select the required playback (speaker) device, capture device (mic) and the ringer device (typically again the speaker).



Ask for a free trial today!

sales@crux-labs.com+65 6229 7800

