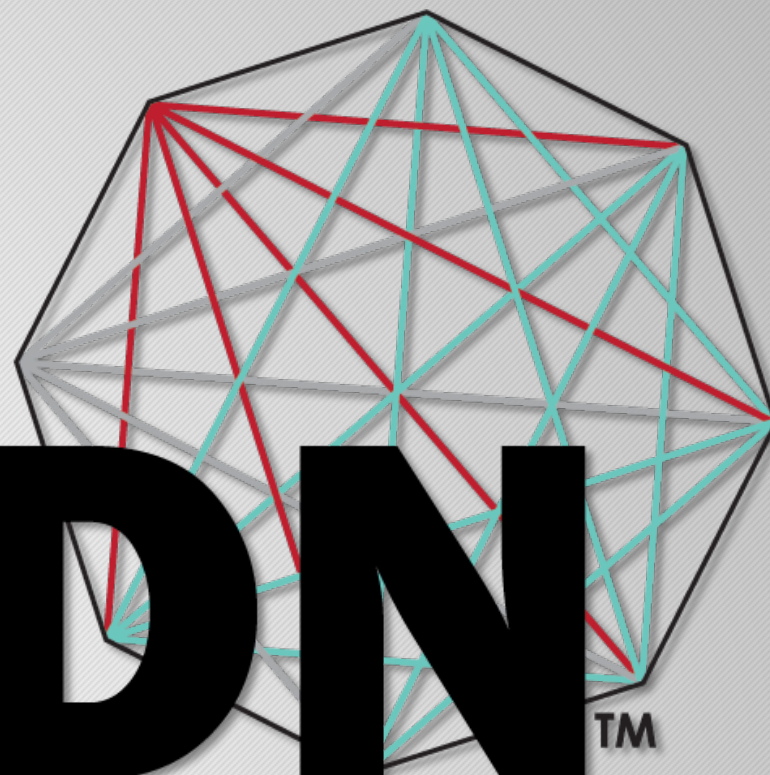
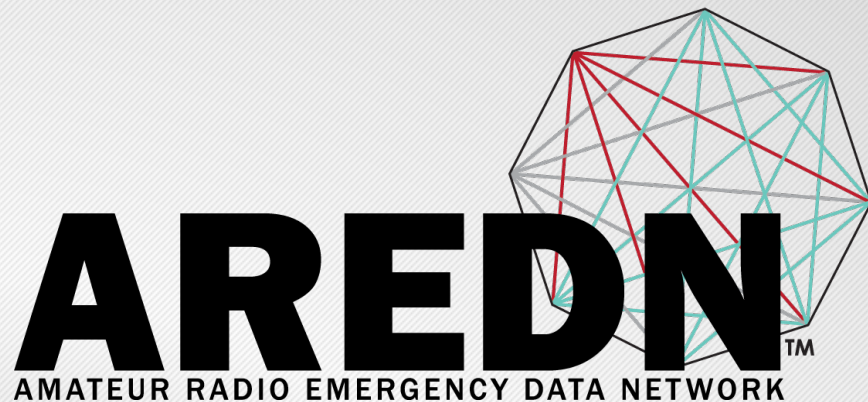


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AMATEUR RADIO EMERGENCY DATA NETWORK





GS Wave Setup For Direct IP Calling On Your Smartphone

Mark Herson, N2MH

May 2019

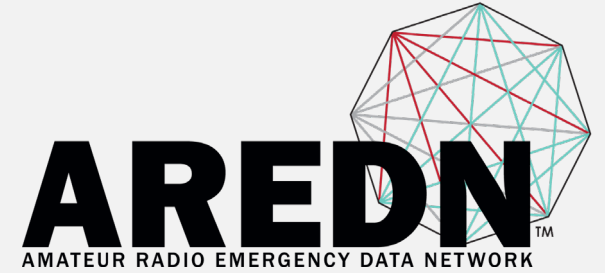
Topics



This presentation will cover

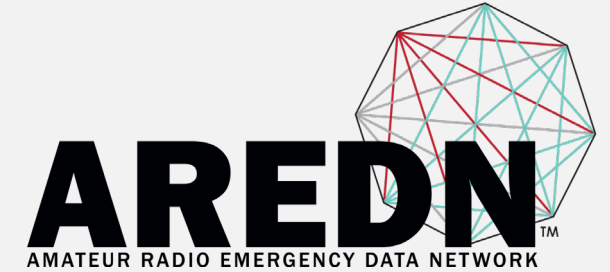
- Definition of direct IP calling with background information
- Software Recommendation
- Configuration
- Operation

Direct IP Calling



- The ability of one telephone to call another by calling an IP address instead of an extension number
- Uses SIP TCP/IP protocol (Session Initiation Protocol)
- Method shown here will use GS Wave (GrandStream)

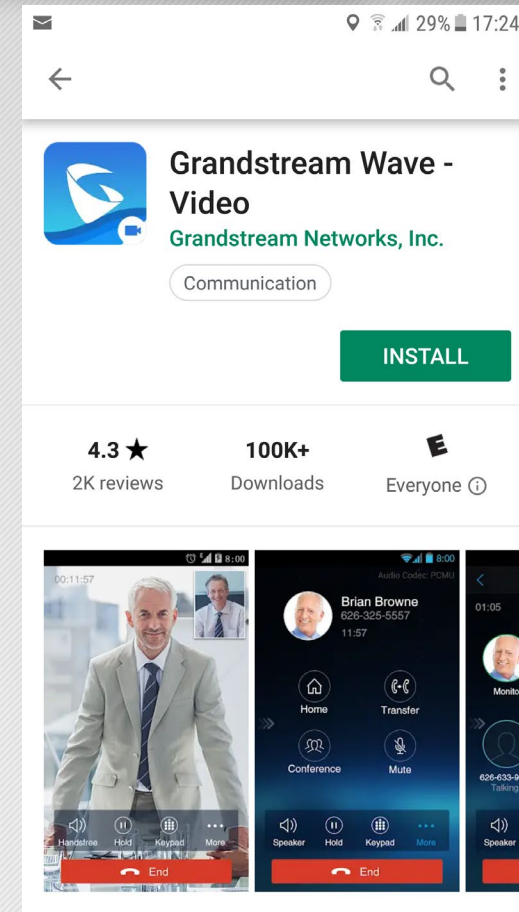
Recommendation: GS Wave



- App developed by GrandStream
- Available for Android and Apple platforms
- Free
- Download from your appropriate app store
- Capable of 6 lines
- Normally, these 6 lines could be 6 different extensions on 1 PBX, 6 extensions on 6 PBXs, or any mixture.
- The rest of this presentation will show how to take one (the first line) and use it for direct IP dialing

Installation

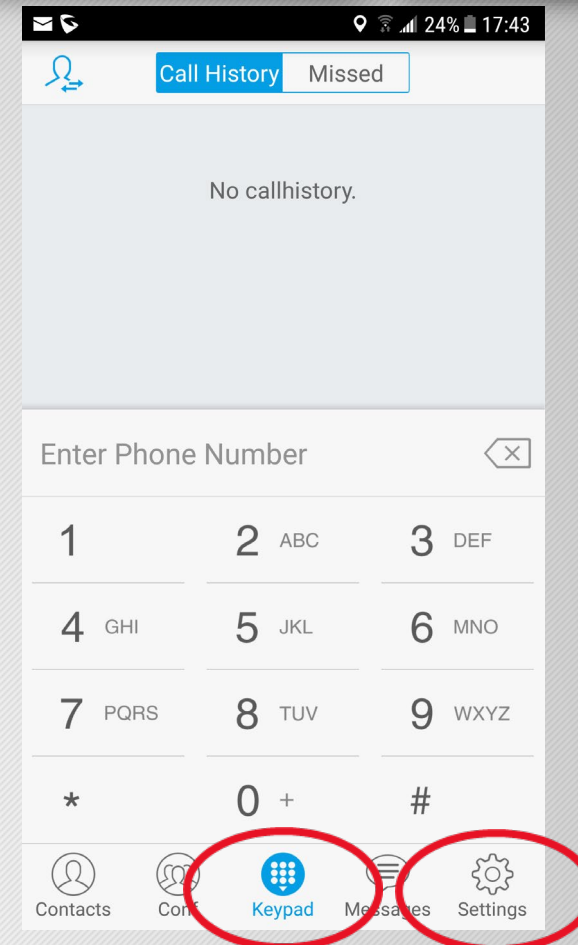
- Download and install the app from your app store
- Accept permissions



Configuration



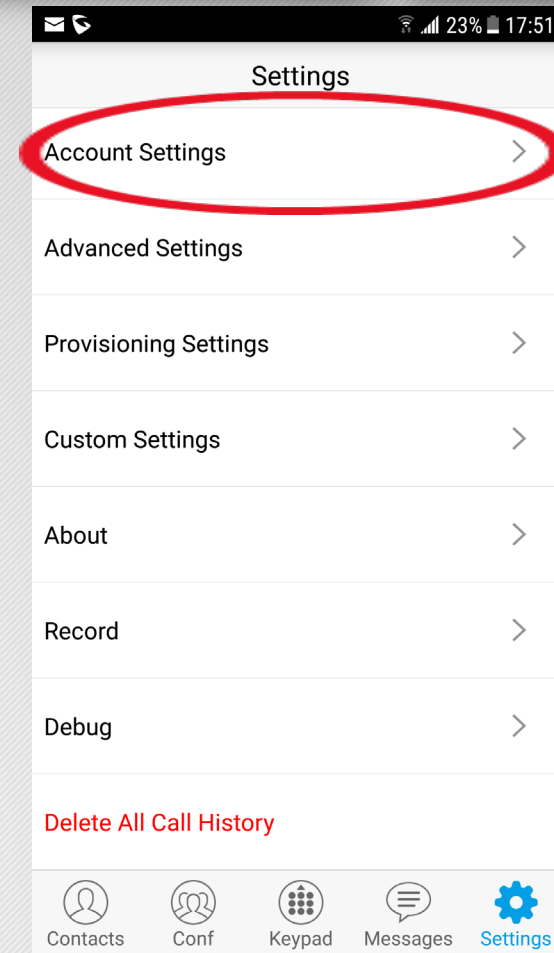
1. Bring up app
2. Go to Keypad Screen
(Press the *keypad icon* at the bottom center)
3. Press *Settings Gear* on the bottom right to go to the Settings page



Configuration continued



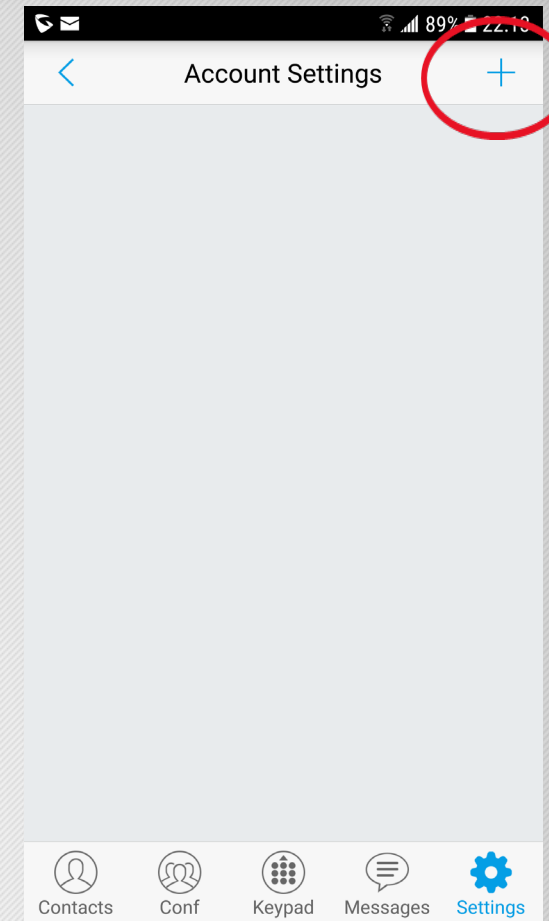
- On Settings page, go to ***Account Settings*** >



Configuration continued



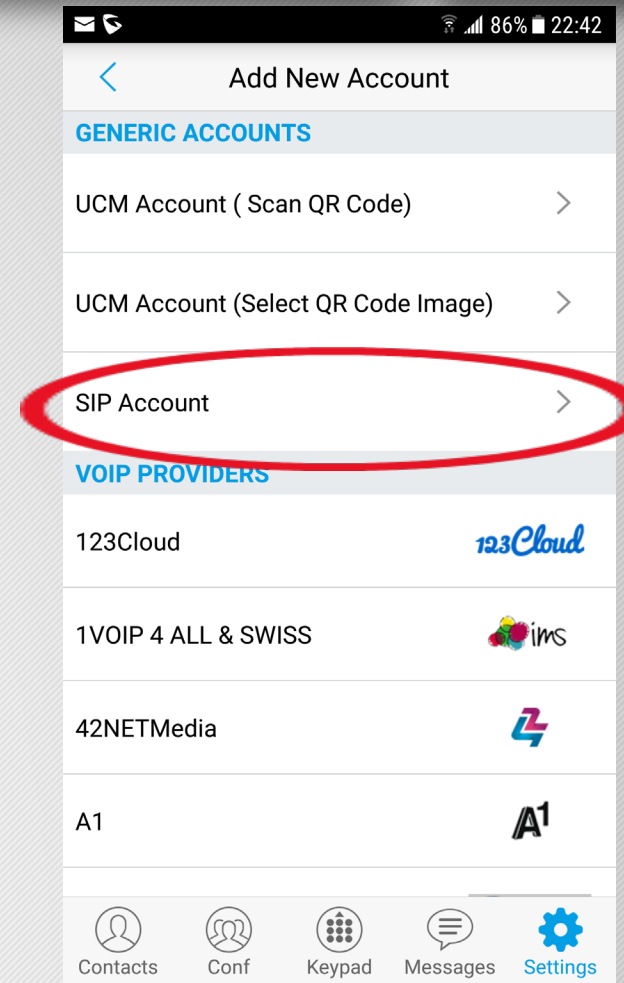
- On the Account Settings page, press the + *sign* at the top right



Configuration continued



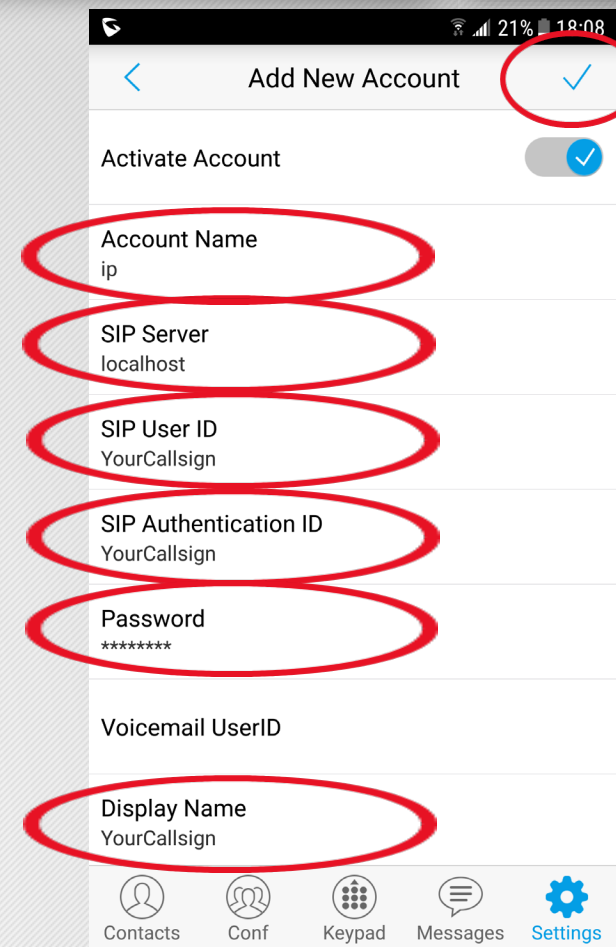
- On the Add New Account page, choose ***SIP Account*** >



Configuration continued



- On the Add New Account page
- Enter the settings shown
- Replace “YourCallsign” with your own callsign
- Password = *password*
- Press the checkmark on the upper right (to the right of “Add New Account”)



21% 18:08

< Add New Account ✓

Activate Account ☒

Account Name
ip

SIP Server
localhost

SIP User ID
YourCallsign

SIP Authentication ID
YourCallsign

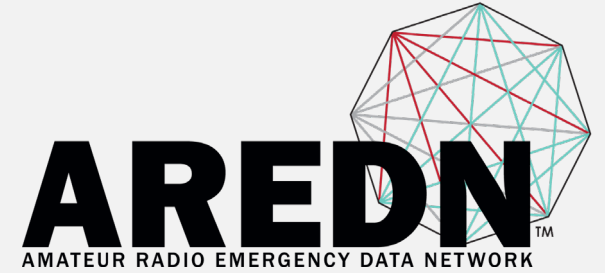
Password

Voicemail UserID

Display Name
YourCallsign

Contacts Conf Keypad Messages Settings

Configuration continued



- You should be back on the previous screen with an entry called “IP” and a red dot. Press “IP”.
- General Settings → Activate account [✓]
- Call Settings → DialPlan []
- Call Settings → Use # as Dial Key [✓]
- Call Settings → Auto Answer [No]
- SIP Settings → Enable Session Expiration [✓]
- SIP Settings → Session Expiration Settings → Force INVITE [✓]

Configuration continued



- All other settings should be default from the factory
- Press the back arrow (upper left) as needed to get to the Account Settings screen which now has the single entry “IP”
- Press the *Keypad* button at the bottom of the screen to get back to the phone's home page.

Operation



Congratulations! You should now have a working softphone app on your smartphone.

- Calling someone else's phone by IP address can be done in two ways
- Using the key pad to enter the number.



Operation continued - Method 1



Press the keypad numbers corresponding to the digits in the IP address. The dot in the address is the * key. After the last digit, press the green dial button.

For example: To call 10.1.2.3, enter 10*1*2*3 then the Dial button which pops up.



Operation continued - Method 2



- Using the pop-up keyboard built into the phone.
- Press the box “Enter Phone Number”. The phone's keyboard should pop up.
- After the whole IP address is entered, press the green Dial button which pops up.



Operation continued



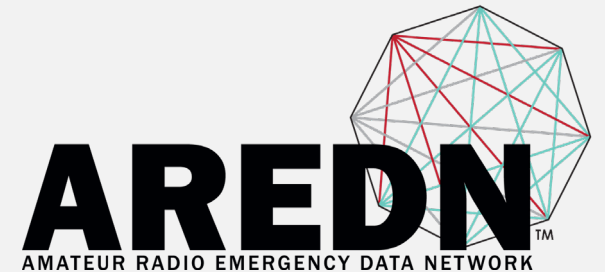
- When you installed the app, if you gave permissions to the app to use your contacts book, you can place your favorite IP addresses there and use those contacts later. How this all works depends on your phone.
- If you have a PBX, you have 5 additional lines on the phone that you can configure with PBX extensions.

73 and Happy Phoning!

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