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Hello DMR!

Steps to configure DroidStar on your Android Mobile Phone

DMR (Digital Mobile Radio) is a digital mobile radio standard. This is now catching up in several Cities in India and Bangalore is no exception. We have more than 45 Hams now in Bangalore who have their DMR Radio setup and are On-Air. IIH runs the **Namma Bengaluru DMR Net** on the DMR Repeater **VU2ZO** at Frequency 145.275 MHz with negative shift of 600 kHz, with Time Slot 1 and Time Slot 2 operational. Time Slot 2 is up linked to the BrandMeister network. The official listed BrandMeister Bangalore DMR Talk Group is **40480**.

If you are interested in getting into such Digital Technologies, then you can start off with this simple guide. It is ok if you don't have a DMR Radio with you at this point of time, you can still experience DMR and other Digital Technologies using DroidStar Android Application straight from your Mobile Phone.

Various ways to check-in to the Namma Bengaluru DMR Net

There are several ways to check-in to the **Namma Bengaluru DMR Net** and other **DMR Nets Worldwide**, few of them are listed here:

1. Using a DMR capable Radio and talking to the VU2ZO Repeater directly

If you can hit the VU2ZO Repeater over RF, you are good to go. We have seen VU2ZO Repeater has a good reach all around Bangalore City and even far beyond to Doddabalapura, Hoskote etc.

Radio's like Alinco MD5E Handy, Alinco MD5XEG Handy, Alinco MD500 Base, Alinco MD520T Base, Anytone models, Motorola models, Hytera models, Radioditty models etc. are quite famously used by Hams.

With direct access to VU2ZO DMR Repeater, you can use TS1 for local RF communications and TS2 to link to the entire world via various BrandMeister Dynamic TalkGroups

2. Using a DMR Handy (or Base) and linking to your own private home MMDVM Hotspot

In this case, you need a DMR Handy at the minimum and a MMDVM Hotspot. Your Handy transmits (typically over UHF) to the Hotspot and the Hotspot links to BrandMeister over your home WiFi network

3. Using DUDE-Star Windows OS based Application

DUDE-Star for Windows also works flawlessly. Note that this option does not use any Radio Frequency (RF). It is purely over the Internet.

4. Using DroidStar Android Application

DroidStar is an application on Android Phones. Note that this option does not use any Radio Frequency (RF). It is purely over the Internet.

There are various other options too which are not listed above. In this document, you will find instructions how to configure your **DroidStar Application on your Android Phone**. Sadly, currently there is no such application for iOS (iPhones).

Using DroidStar Application on your Android Mobile Phone

1. Downloading the DroidStar Application from Google Play Store

- Goto the Google Play Store on your phone and look for DroidStar and install it
- <https://play.google.com/store/apps/details?id=org.dudetronics.droidstar&hl=en&gl=US>
- The Application ICON looks like this:



2. Get your own DMR ID if you haven't yet got it yet

Follow these steps to get yourself a DMR ID and Link your DMR ID to the BrandMeister DMR Network:

1. Goto the following website and register a new account:
<https://www.radioid.net/account/register#>
Give your Call Sign, details and upload your official WPC issued License.
Wait for few hours (or maximum upto 2 days), you will get your unique DMR Radio ID.
Store your DMR ID and your Login ID and Password safely.
2. Next is to register yourself on BrandMeister Network once you get your DMR ID assigned:

Goto this website and create a new account =>
<https://brandmeister.network/?page=register>

Choose Account Type as "Personal User Account".
Enter you DMR ID (Step#1) and Register.
It will take few hours or days to get this done

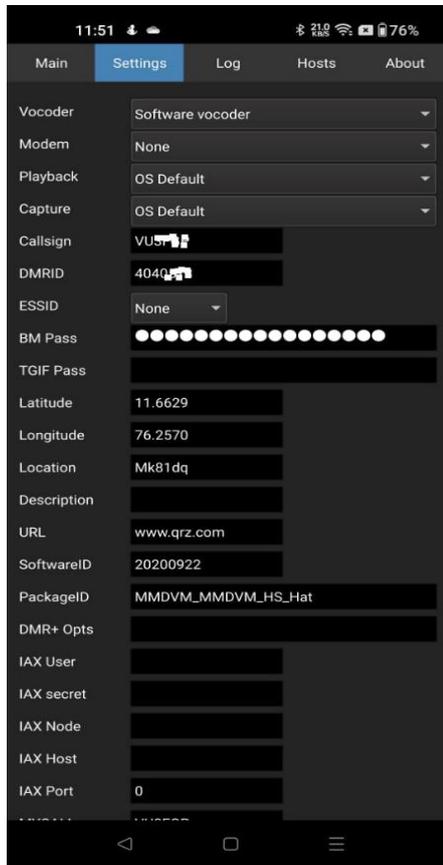
3. Next step is to create a Hotspot Password on the BrandMeister Network
 - a. Goto <https://brandmeister.network/>
 - b. Login with your BrandMeister Login ID and Password
 - c. On the top right-hand side corner, click on your Call Sign and goto SelfCare
 - d. At the bottom of the screen, set Hotspot Security = ON (if that option is available)
 - e. Enter a password (you must give a new password that is not your BrandMeister Website login password)
 - f. IMPORTANT NOTE: Do not give a complicated password with special characters, we have seen that having few special characters leads you to failure later on!
 - g. Press 'Save'

3. Configuring your DroidStar application

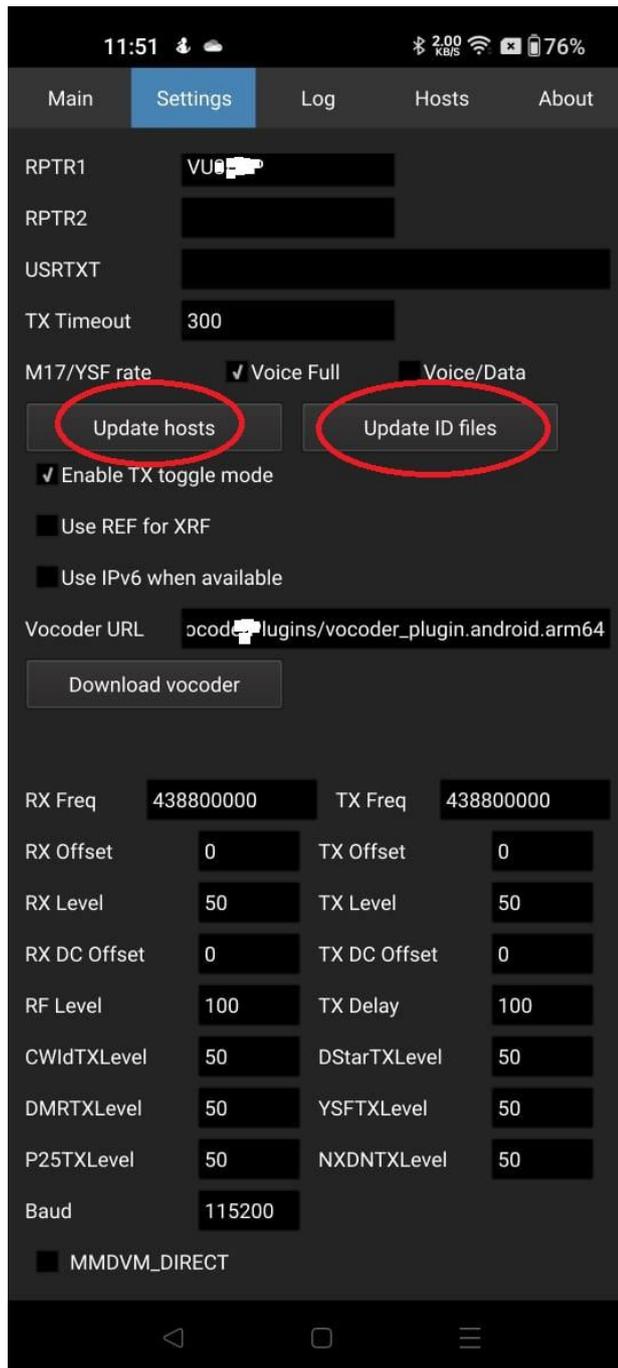
DroidStar is an app that connects to D-Star, Yaesu System Fusion reflectors, DMR system on the BrandMeister Network etc.

Follow the below steps to configure DroidStar:

1. Start the DroidStar application, go to settings area and enter your Call Sign and then your DMR ID number and then your BrandMeister Hotspot password (BM Pass). This is not your BrandMeister website login password.



2. Once the above has been done, click on 'Update Hosts' then "Update ID files"



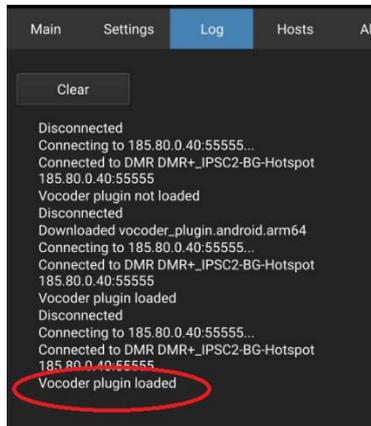
3. Set the Vocoder

Put the Vocoder URL as:

[http://dudestar.gw8szl.co.uk/Droidstar/Vocoder Plugins/vocoder_plugin.android.arm64](http://dudestar.gw8szl.co.uk/Droidstar/Vocoder%20Plugins/vocoder_plugin.android.arm64)

and click 'Download vocoder'.

Goto the 'Log' tab and check if the Vocoder is successfully downloaded.



4. In the main screen tab change the mode to DMR, Time Slot S2, CC1

5. Change the host to BM_2622_Germany (or any other nearby BM_XXXX server, e.g. Malaysia is nearby or also Philippines)

6. Set MIC gain to 50% level

7. Enter TalkGroup (TGID) as 40480

8. Press the big blue button once and release it. This is like logging into the TG 40480. You can Adjust the mic gain if needed. You can now start to transmit and make QSO. Also try out the Worldwide TG i.e. TGID=91

You can also explore other Modes like REF, YSF, DCS etc. REF030 Module C is a good one to try.

For help you can reach out to Venkat, VU2IIM whatsapp no. 97390 04248 (Please avoid voice call).

Enjoy and hoping to hear you soon on DMR!