

BCU Livestream - 2/10/21 - Introduction to DMR+

What is DMR+ and how do I use it with my HotSpot??

DMR+ is a network of servers that manage the connections of repeaters and hotspots. This allows you to place voice and data calls to various Talkgroups (TG) and/or reflectors. You can access the DMR+ network through a local repeater connected to a DMR+ server or use a HotSpot. Depending on the server and reflector you chose, you can place calls to other DMR radios and radios operating different modes.

In today's study we're going to use Pi-Star to configure our hotspot to do DMR+. We'll then set the hotspot to connect to a DMR+ Server and then make effort to connect and disconnect to a few different reflectors.

You can use google to search for websites for the various DMR+ servers:

DMR+ Servers examples:

<https://dmr.openquad.net/#>

A Big list of DMR+ Servers:

<http://www.dmr-marc.net/dmrplus-dashboard.html>

In this training we're going to focus on the IPSC2-QUADNET server.

So, Buckle up! Here's how it's done!

Enable DMR+ In the Pi-Star Configuration page

1. Login to your Pi-Star Dashboard
2. Go to the DMR Configuration section and select the following:
 - A. Set DMR+ Master from the drop down menu to: DMR+_IPSC2-QUADNET
 - B. Set the DMR+ Network Options:
Cut-n-paste this into this field: StartRef=4541;RelinkTime=15;UserLink=1;

This sets the startup reflector to: 4541, **RelinkTime** is the time in minutes will remain on another reflector before Pi-Star reverts back to the startup reflector. UserLink setting to 1 enables relinking by the user.

See this link for more information about the Network Options:

https://github.com/g4klx/MMDVMHost/blob/master/DMRplus_startup_options.md

Also: Here's a link to the DMR+ reflectors available:

https://www.pistar.uk/dmr_dmr+_reflectors.php

C. Set DMR+ Network Enable to ON

D. Apply Settings

3. Go to <https://dmr.openquad.net/#> and verify if the HotSpot connected to the Server.

Programming the Radio.

1. Read Radio using CPS.
2. Create Talk Groups for DMR+
DMR+ with Pi-Star uses TG 8. But we have to 'steer' the Hotspot to go to the various reflectors using the IPSC2 Server.
 - a. Create Private call TG for Disconnect. TG number must be preceded with an '8'. - TG 84000
 - b. Create Private call TG for DMR+ Status. 85000
 - c. Create Private call TG for Ohio - 4608 - So we set up 84608
 - d. Next create a Group call for talking on DMR+ and this is TG 8. - Must be a group call.
3. Create Channels for the HotSpot using new Talk Groups. Add good descriptive alpha-tags.
4. Create Zone for DMR+
5. Add DMR+ Channels to the Zone
6. Write to radio and test!