

DMR Repeater Traffic Management

There are approximately 1,300 Talk groups in the Brandmeister TG database and 3,264 repeaters. If all of the Talk Groups were allowed to simultaneously pass through all of the repeaters, it would be a cacophony of unintelligible chaos. So, how can you manage all of that traffic in an orderly manner? Static and Dynamic Talk Groups and Time Slots!

Static and Dynamic Talk Groups

Static - The individual repeater Administrators can set which of the Brandmeister Talk Groups will pass through the repeater unimpeded. These are called Static Talk Groups. All other Talk Groups on that repeater become Dynamic Talk Groups and are automatically blocked. They do not pass through the repeater.

Dynamic - Talk Groups that are Dynamic, on a repeater, are automatically blocked. They will not be heard on the repeater, unless a user requests a specific Dynamic Talk Group to be passed through, by pressing PTT. Then the repeater will pass through that one Talk Group for 15 minutes, and drop the connection. The user can keep the connection alive, by pressing PTT at least once every 15 minutes. Then the connection will be dropped 15 minutes after the last PTT.

Dynamic Talk Groups should be requested on Time Slot 1, unless otherwise specified by the repeater operator.

Time Slots

Time Slots - A DMR repeater has 2 Time Slots. Each Time Slot can carry one Talk Group at a time. So, 2 Talk Groups can be active on the repeater at the same time.

Local and Distant

By convention geographically Local Talk Groups are assigned to Time Slot 2. And, all other Talk Groups are assigned to Time Slot 1.

Local Talk Group

A Talk Group named Local, usually TG2 or TG9, is different than a geographically local Talk Group. It is not routed outside of the repeater or repeater group (cluster). We will probably use TG9.

Talk Group Matrix

A Talk Group Matrix is a table of the Static Talk Groups and their Time Slot assignments on the repeater. Brandmeister Networked Repeaters have an information page that can be found by going to this link. And searching for your repeater's call sign :

<https://brandmeister.network/?page=repeaters>

On that page is all of the pertinent information about the repeater, including the Static Talk Groups and their Time Slot assignments. Also, repeater operators usually have a web page that has information about their Talk Group Matrix.

To maintain order on the repeater, it is important for all users to follow the Talk Group Matrix.

TS1 and TS2 Linked

When the Brandmeister repeater information page says TS1 and TS2 are Linked. It just means that both time slots are linked to the Brandmeister Master Server. Not that they are linked to each other.

Hotspot Frequencies

Here is what I have found about Hotspot Frequencies in Southern California. And, they conflict with on another. Even though they both are replies from SCRRBA. I chose 431.025:

<http://mrickey.com/2018/03/hotspot-frequencies/>

<http://www.scrba.org/BandPlans/420-440.pdf>

<http://www.papasys.com/showthread.php?t=2089>