

New configs for Tri-State DMR with DMR+

# What happened

- The DMR MARC folks have been experimenting with sharing talkgroups with the DMR+ network for a while now. Up to now this has been only a small number of shared groups.
- As of February/March this year Tri-State DMR (our local 11 repeater group) updated things to allow for more sharing and also user selectable dynamic groups.

# What came before:

Time slot	Talkgroup	Name	Area	Activation
1	1	Worldwide (all languages)	Worldwide	PTT 10 m t/o
1	3	North America	North America	PTT 10 m t/o
1	13	Worldwide English	Worldwide	Always On
1	113	User Activated (UA) 113	Worldwide	PTT 10 m t/o
1	133	DMR+ USA	Worldwide	PTT 10 m t/o
1	143	DMR+ United Kingdom	Worldwide	PTT 10 m t/o
1	153	DMR+ South Pacific	Worldwide	PTT 10 m t/o
1	3169	Midwest Regional		Always On
1	9999	Audio Test		PTT 2 m t/o
2	2	Tri-State Local	11 local repeaters	Always On

# What we have now:

Time slot	Talkgroup	Name	Area	Activation
1	8	Tri-State Local	11 local repeaters	Always On
2	13	Worldwide English	Worldwide	Always On <b>except</b> with DMR+ active!
2	3	North America	North America	PTT 10 m t/o
2	9	Talk	Linked Reflector	Always On
2	5000	Status	Local Repeater	1s PTT
2	4000	Disconnect	Local Repeater	1s PTT
2	4xxx	Select reflector	Special	1s PTT

# What is mostly the same.

- Tri-State Local
  - Moved from TS2 to TS1
  - TG ID changed from 2 to 8
  - Still always on
  - Still same 11 repeaters.
- Worldwide English
  - Moved from TS1 to TS2
  - Same TG
  - Still always on (except when DMR+ reflectors active)
- North America
  - Moved from TS1 to TS2
  - Otherwise the same TG and dynamic PTT activity.

# What's new

- DMR+ reflectors.
  - Over 200 (244 as of 2017 04 17)
  - All of these are now dynamically accessible
  - Essentially only one can be active on a specific repeater at one time.
  - Use “special” talk group IDs to check status, and attach to, or detach from, a reflector.
  - Use common “Talk” TG to actually talk or listen.

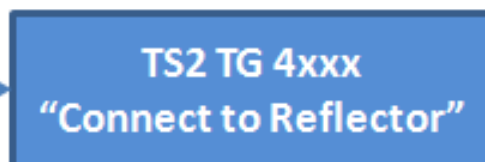
# Connecting to Reflectors on DMRPlus

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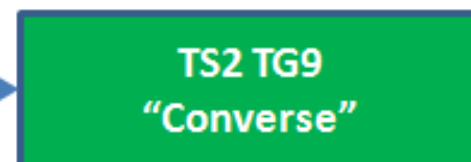
Step 1: Check status  
of repeater



Step 2: Choose a  
reflector



Step 3: Begin your QSO



Step 4: End your  
QSO



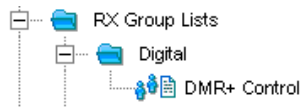
# Text version:

- When checking status (1 second PTT on TG5000) the reply is a voice signal that will be heard on TG 9 “Talk”. So, you need to make sure to hear messages on TG9 when doing any control operations!
- Always key up status first!
- Then key the correct TG for the reflector you want.
- Then talk on TG9
- When finished, key TG 4000 to disconnect!



# To hear TG9 with other control TGs

Create a new Digital RX group list:



Ensure you have TG9 in the list:

Talk TG9  
DMR+ Status  
DMR+ Disconnect

Then enable that group list for the OTHER TGs:

**RX**

Frequency (MHz)

Ref Frequency

Group List

# Some reflectors to keep in mind:

- Just a few sample options!

- 4502 Skywarn & WX
- 4503 Digital Radio
- 4504 Satellites
- 4505 Raspberry Pi & Arduino
- 4636 USA Illinois
- Lots more

<http://www.tristatedmr.org/talkgroups.html>