

DMR Basics. STARC / NEKRC

1. Radio ID Net <https://radioid.net/> to get Radio ID. Do this ONLY ONCE per call sign!
2. Visit the <https://nedecn.org/> to look up local repeaters.
3. Visit <http://64.223.148.21:42420/CallWatch> to look for your transmit info (it may take a few days for the database to reflect your name next to your Radio ID).

Download from Radio and save a basic radio file BEFORE YOU DO ANYTHING ELSE!!!!!!!!!!!!

Save a new file from the download and save a new file name (I use Radio Model and Date to keep it simple with multiple radios. Now you can either import code plug, or copy and paste, or build one from scratch.

Talk Groups

Build these first **from the repeater site information**. Example Talk group 3150 is Vermont Statewide. **Load all Talk Groups first!**

Memories

Analog frequencies like a normal radio. Check the Analog Box for the CTCSS/DCS codes. Add Name of Channel as you wish.

DMR frequencies and offsets as normal, check the digital box but add the following info from the repeater site once per Talk group on that repeater:

Color Code (the DMR version of the CTCSS/DCS tone)

Repeater Slot (so 2 conversations can happen at the same time.)

Talk Group

Channel Name as you wish

Group List (later, zones have been added)

Scan List (later, after scan lists have been added)

Zone List

Customize Zone list with each memories as required.

Scan List

Customize with each memories you wish scan.

Go back to memories and add which scan list you want the radio to scan from where the memory starts.

Repeater Structures

Your memories and Talk groups **MUST match** the repeater information to work!!!!

Most New England Repeaters <https://nedecn.org/> are linked through an Internet Bridge so you can see activity in the entire system.

Color Code (the DMR version of the CTCSS/DCS tone)

Repeater Slot (so 2 conversations can happen at the same time.)

Talk Group (see examples)

The repeater automatically prioritizes calls on your repeater. Example is if you are on a New England Talk Group and at Vermont Statewide starts, it will override the New England Talk Group will the Vermont Statewide is active (up to 3 minutes after the last VT SW call). The list shows the priority of calls per time slot for our repeaters.

The * PTT is that the repeater will not retransmit this conversation automatically until you “Kerchunk” the repeater. This times out 3 minutes after your last or anyone listening to your repeaters “Kerchunk”, even if the group is still talking. Again, Priority is key to this. You can check the DMR New England Bridge to see if someone is talking on that Talk group. You will see this when you are on a channel and your radio is flashing a light etc. you have to check the bridge, go to that channel (if you have it in your zone etc., then give it a “Kerchunk” to listen or join in.

Parrot and Audiowatch <http://64.223.148.21:42420/CallWatch> will both show up with signal strength on the bridge site. Parrot will also call back to you to check your audio quality with have to “Radio Test’ with

someone else and not tie up a repeater. Audiowatch will help you adjust your radio mic volume levels on the system I build all the Parrots together so I can test repeaters for best signal before I go to talk group I wish to use.

Callsign: K1VIT

Frequency: 449.47500 MHz

Offset: -5.0 MHz

ColorCode: 5

NEDECN

Warren, Vermont

(Priority Order of Call)

Time Slot #1 – Group Call 759 = SKYWARN

Time Slot #1 – Group Call 9998 = Parrot*

Time Slot #1 – Group Call 9999 = Audio Watch*

Time Slot #1 – Group Call 3109 = CT SW*

Time Slot #1 – Group Call 3125 = MA SW*

Time Slot #1 – Group Call 3123 = ME SW*

Time Slot #1 – Group Call 3133 = NH SW*

Time Slot #1 – Group Call 3144 = RI SW*

Time Slot #1 – Group Call 3172 = Northeast

Time Slot #1 – Group Call 3 = North America*

Time Slot #1 – Group Call 1 = World Wide (PTT)*

Time Slot #1 – Group Call 8801 = NETAC 1*

Time Slot #1 – Group Call 310 = TAC310*

Time Slot #1 – Group Call 311 = TAC311*

Time Slot #1 – Group Call 316 = TAC316*

(Priority Order of Call)

Time Slot #2 – Group Call 9 = Local Site

Time Slot #2 – Group Call 3150 = VT Statewide

Time Slot #2 – Group Call 3181 = New England Wide (Mon. 8 PM Net)

Time Slot #2 – Group Call 8802 = NETAC 2*

* Indicates PTT Activation required

You Must Have [ARS] Disabled in Your Radio

Trustee: Chris, KI1P