

(geared towards the Anytone AT-D868UV)

AT-D868UV and programming software can be found here: www.importcommunications.com

1. By the end of this lesson you will be able to program a DMR radio with basic functions.
2. You will also learn how to spell DMR.
3. And you will have more questions when we are done so let's get started.

Step 1. Register at DMR-Marc for a radio ID. You only need 1 DMR ID for all your DMR radio's or hotspots. Your ID will be emailed to you generally within 48hrs. <https://www.dmr-marc.net/cgi-bin/trbo-database/userreg.cgi>

Step 2. Determine if a DMR-Marc repeater is available in your area at <https://www.dmr-marc.net/repeaters.html>. If not then a DMR hotspot such as a DVmega-BlueDV or Openspot are great choices. If you are fortunate to have a local DMR repeater then an excellent portable radio is the Anytone AT-D868UV. It is a dual band VHF/UHF HT with analog FM & DMR capability for around \$170.00

Step 3. Program your radio with the manufactures CPS software. This lesson will only focus on basic DMR programming that connects to a DMR-Marc repeater.

Section 1: What is DMR?

Digital Mobile Radio is an open digital standard defined in the European Telecommunications Standards Institute (ETSI) and is divided into three tiers.

Tier 1 is a single channel spec and uses 6.25 kHz bandwidth & is good for simplex but will not work on Ham repeaters.

Tier 2 is a 2-slot TDMA 12.5 kHz bandwidth protocol. Amateur DMR repeaters allow for 2 slots each being 6.25 kHz wide. This allows for 2 simultaneous radio channels to be used on 1 repeater. When purchasing a radio for Ham use make sure you look for Tier 2.

Tier 3 builds on Tier 2 but adds trunking. Currently not used in Amateur Radio.

Section 2: DMR Repeaters and networks

Not all Amateur Radio DMR repeaters are connected to the internet. If the DMR repeater has no network capability then it will not be able to access any of the global talk groups and will only be a local area repeater. You will need to check with your local repeater operator to see what groups/time slots are available.

For this conversation we are only going to discuss the DMR-Marc network from Motorola. You can access the DMR-Marc network information at <https://www.dmr-marc.net/repeaters.html> Locate your local repeater to retrieve the repeater programming information.

There are 3 popular wide area DMR networks currently being used worldwide, DMR-Marc, Brandmeister and DMRplus. Your local repeater operator determines which one to use. Some DMR repeaters have no linking capability and are local area repeaters only.

Common talkgroups on DMR-Marc repeaters: The following DMR talkgroups are generally available on all DMR-Marc networks; NA for North America, WW for WorldWide, WWE for WorldWide English, State Wide, certain regions & some TAC channels. TAC channels such as TAC-310 are not on by default. You will manually need to key up using talkgroup 310 to start using it but it **will timeout after 5-10mins of no local activity.**

Hotspots cannot connect to DMR Marc repeaters directly. You will need to review what talkgroups are in common with your hotspot network & your local DMR Marc repeater. TAC-310 is common between DMR-Marc & Brandmeister but needs to be activated manually.

Section 3: AC4XQ DMR repeater located on the Broward/Dade line Great coverage in all parts of Broward & Dade County

Callsign: AC4XQ
Frequency: 443.12500
Offset: +5.000
ColorCode: 10

IPSE2
North Dade, Florida

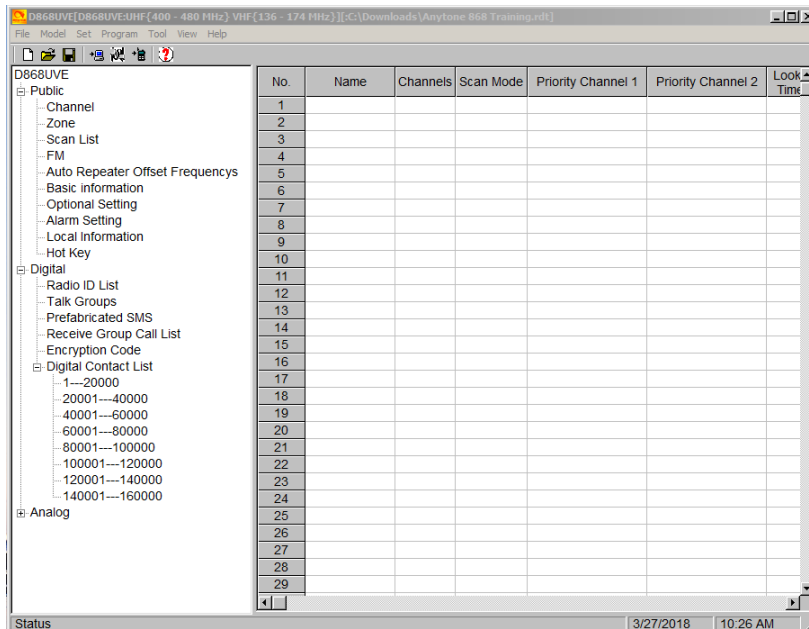
Repeater Callsign: AC4XQ
Repeater City: North Dade
Repeater State: Florida
Repeater Country: United States
Repeater Frequency: 443.12500
Repeater ColorCode: 10
Repeater Offset: +5.000
Repeater M/P: Master
Repeater Time Slots: TS1 TS2

Time Slot #1 - Group Call 1 = World Wide
Time Slot #1 - Group Call 13 = WW English
Time Slot #1 - Group Call 3 = N. America
Time Slot #2 - Group Call 2 = Local
Time Slot #2- Group Call 3112- Florida Statewide

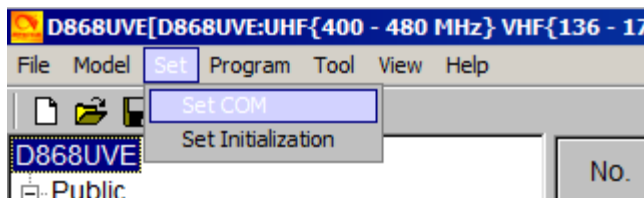
Section 4: Programming your DMR radio

Note: For this lesson we will only be installing the minimum required settings to get on the AC4XQ repeater plus one simplex UHF analog channel. The radio used for this demo will be the **Anytone AT-D868UV** portable radio. The CPS programming software will look different for each model radio but the same info must be stored.

1. Download & install the CPS software “Customer Programmable Software” for your radio’s specific model.
2. With your radio turned off, plug in your DMR radio programming cable & install it to the radio and your computer. Some programming cables require a USB driver so you may need to download the driver from the manufacture website. Do not continue if your USB programming cable is not recognized. Some USB cables show up as com ports while others are native Windows USB devices. Some programs require you to manually set the com port so check your radio’s documentation.
3. Turn on your radio.
4. Start your CPS software then expand the left window. Other manufactures CPS screen will look a little different but must contain the same basic information.

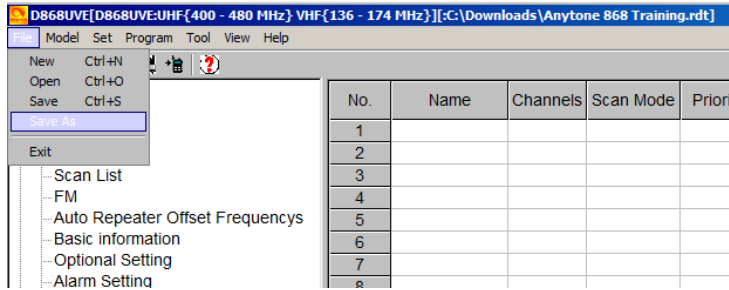


5. From the top menu, select “Set” then “Set COM” and choose your com port.



6. If this is a brand new radio then we highly recommend you read in your radio configuration. Select Program then “Read from Radio”. Wait for read to complete. If the program does not read the radio then check your USB cable connection & or your com port settings.

7. Save your file by selecting “File” then “Save As” & give it a descriptive name like “original code plug”

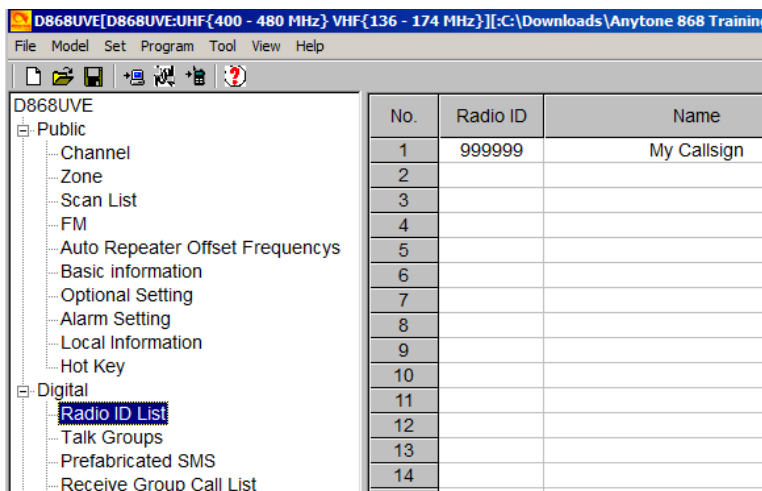


8. Your radios configuration settings are also known as a “**code plug**”. So if you install someone else’s radio code plug you will need to know the following:

- a. You will lose all your radio programming settings/frequencies and get theirs.
- b. If the code plug is from a different area, county/state then it will not work in your area.
- c. If the code plug is from a different model radio then it will generally not work with very few exceptions. Example: A code plug from a TYT MD380 can be read into a TYT2017 & TYT MD9600 radio but will not work on different model DMR radios.
- d. If the code plug is from your local area then you will need to enter your DMR ID, your callsign & your radio screen name.

9. Now you’re ready to start programming. Follow these steps in order to make the programming process easy.

- a. Expand “Radio ID List” & enter your DMR ID and callsign in the right window.



- b. Expand menu “Talk Groups” & enter all 9 entries. These are the same Talk Groups as in section 3 and are common for all North America DMR-Marc repeaters with the exception of the statewide and regional TG’s.

No.	TG/DMR ID	Call Alert	Name	Call Type
1	1	None	WW (TG1)	Group Call
2	2	None	Local 2 (TG2)	Group Call
3	3	None	NA (TG3)	Group Call
4	13	None	WW Eng (TG13)	Group Call
5	91	None	WW (TG93)	Group Call
6	93	None	NA (TG93)	Group Call
7	3112	None	FL State	Group Call
8	3174	None	SE Regional	Group Call
9	310	None	TAC-310	Group Call
10				
11				
12				
13				
14				
15				

- c. Expand “Channel” then in right window double click on line 2 to edit the channel. The screen below already shows programmed channels so for this example we will be editing line 2.

No.	Receive Frequency	Transmit Frequency	Channel Type	Power	Band Width	TCSS/DC Decode	TCSS/DC Encode	Channel Name	Contact
1	146.52000	146.52000	A-Analog	High	12.5K	Off	Off	146.52	WW (TG1)
2	443.12500	448.12500	D-Digital	Turbo	12.5K	Off	Off	AC4XQ Local	Local 2 (TG2)
3	443.12500	448.12500	D-Digital	High	12.5K	Off	Off	AC4XQ NA	NA (TG3)
4	443.12500	448.12500	D-Digital	High	12.5K	Off	Off	AC4XQ WW	WW (TG1)
5	443.12500	448.12500	D-Digital	High	12.5K	Off	Off	AC4XQ WWE	WW Eng (TG13)
6	443.12500	448.12500	D-Digital	High	12.5K	Off	Off	AC4XQ FL	FL State
7	443.12500	448.12500	D-Digital	High	12.5K	Off	Off	AC4XQ SReg	SE Regional
8	443.12500	448.12500	D-Digital	High	12.5K	Off	Off	AC4XQ 310	TAC-310
9									
10									

Channel Name: AC4XQ Local

Receive Frequency: 443.12500
Transmit Frequency: 448.12500

Channel Type: D-Digital
Transmit Power: Turbo
Band Width: 12.5K
TX Permit: Same Color Code
Scan List: None

TX Prohibit
 Work Alone
 Talk Around

Digital

Contact: Local 2 (TG2)
Radio ID: My Callsign
Color Code: 10
Slot: Slot2
Receive Group List: None
Digital Encryption: Off
Encryption Type: Normal Encryption

Simplex TDMA
 TDMA Adaptive
 Call Confirmation

Analog

CTCSS/DCS Decode: Off
CTCSS/DCS Encode: Off
Squelch Mode: Carrier
Optional Signal: Off
DTMF ID: []
ZTone ID: 1
PTT ID: Off

Reverse
ZTONE Decode: 1
Custom CTCSS: 131.8

OK Cancel Previous Next

- d. You are now ready to enter your first DMR channel. Enter your AC4XQ repeater talkgroups as shown in section 3. For this example we are going to program **AC4XQ Local** which will allow you to talk to the local Broward/Dade area only. You can add other channels for this repeater that connect to other talkgroups such as North America, Worldwide, etc by simply changing the channel name, contact, & repeater slot. See above illustration for the entries below.

At "Receive Frequency" Enter 443.125

At "Transmit Frequency" Enter 448.125

At "Channel Type" Select D-Digital

At "Power Level" Select Turbo (This is high power 6 watts)

At "Bandwidth" Select 12.5k

At "TX Permit" Select "Same color code"

At "Contact" Click on bar then search for "Local 2" This is the local Talkgroup for AC4XQ.

Double click on Local 2 to select it.



At Radio ID you should see your callsign

At Color Code Select 10

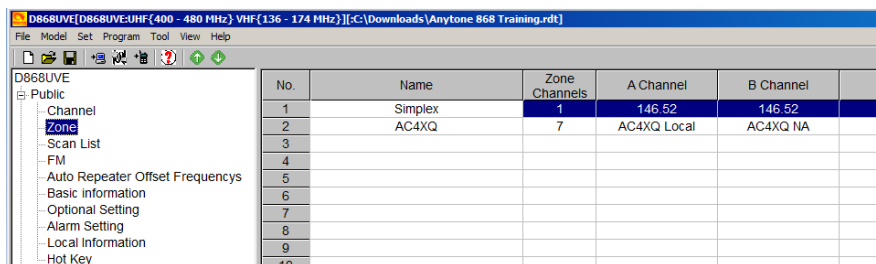
At Slot Select Slot 2

Click on the "OK button.

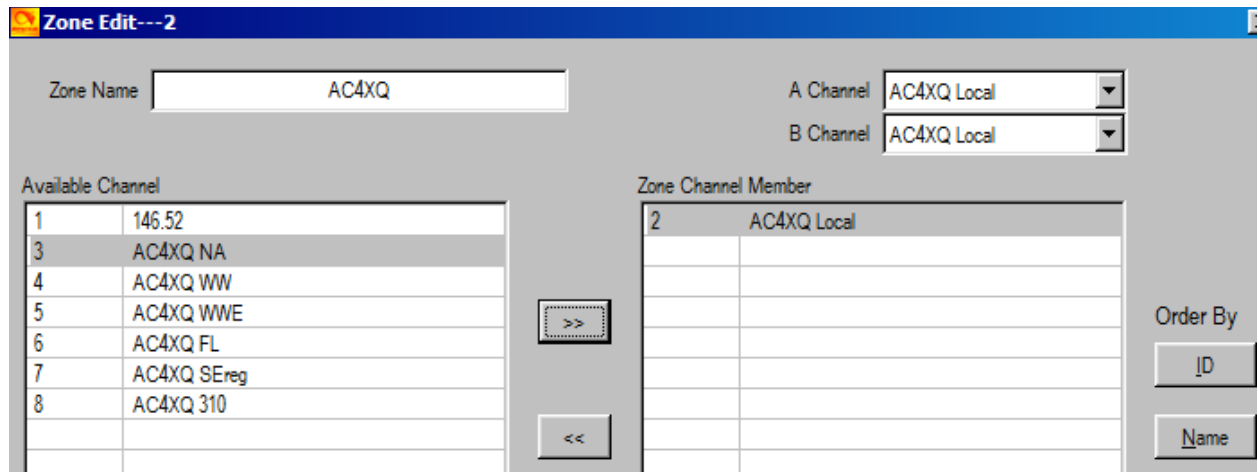
- e. **Repeat above steps to enter the other talkgroups for AC4XQ.** If you are programming another TG on the same repeater then all the information is the same except for the "Channel Name", Contact TG, and slot number.

- f. The next step is to create a Zone. You must add channels to zones to use the radio in either analog FM or DMR mode.

Expand menu "Zone" then in right window select the next available empty line.



Highlight the available channels in left window then click on right arrow to place them in the right window. Add all the channels you wish to associate to this zone. You should now see those channels on the right side. Change “Zone Name” to AC4XQ then click the OK button.



10. **NOW SAVE YOUR WORK & DO IT OFTEN.** USE DIFFERENT FILENAMES IN SOME SEQUENCE SO YOU NEVER OVERWRITE OR CORRUPT YOU'RE ORIGINAL OR LAST UPDATED FILE. ALWAYS USE THE "FILE SAVE AS" OPTION. Example: "ANYTONE 1" then "ANYTONE 2"
11. Now write the configuration to the radio. Select "Program" then "Write TO Radio" and wait for it to finish.
12. Congrats, you programmed your first DMR channel. Use this technique to program the other channels.
13. To program an analog frequency, simply change the "Channel Type" from "D-Digital" to "Analog" then enter in the frequency, power level, and PL tone if required. Remember, you need to add all channels to some Zone including analog channels.
14. If you add new channels or modify existing ones or make any changes in your CPS software then you need to perform a write to the radio to get those changes.
15. **To use your DMR radio.** This example is specific for the Anytone AT-D868UV radio but can be applied to any DMR radio.
 - a. select Menu then "**Zone**". Use the radio up/down buttons to select the zone you wish to use.
 - b. Select the "**TalkGroup**" by turning the knob next to the antenna. This selects the different talkgroups that you programmed. Other model radio's may require you to use the menu and up/down buttons to make talkgroup selections.
 - c. For this example we wish to select "**AC4XQ Local**" You are ready to transmit when the display shows "AC4XQ Local". Do not transmit if someone is using that talkgroup. If no one is using that talkgroup then "Press & hold the PTT button for 2 seconds then start talking". You will get a confirmation tone or a screen alert during a DMR transmission. Some DMR radio's have two different types of audio transmit tones. One tone is a successful repeater connection alert and the other but different tone is repeater cannot be reached.

Note: DMR radios can be programmed to disable all audible sounds so if this is the case then you will not get any notification sound but your screen will display a connection error if you are not able to reach the repeater. Also, you may be in range to reach your local repeater but the issue could be with bad programming such as the wrong freq, slot# or colorcode so verify all your settings first.

THIS COMPLETES THIS LESSON.

CREATED BY KF4ZW

Last updated on 3-17-2018

**TALKGROUP LIST
SORTED BY TALGROUPS**

TG	Name
1	WW (TG1)
2	Local 2 (TG2)
3	NA (TG3)
9	Local 9 (TG9)
13	WW Eng (TG13)
91	World-wide
92	EUROPE
93	North America
95	I-95 (TG95)
99	Simplex (TG99)
113	UA English 1
119	UA All Lang 1
123	UA English 2
129	UA All Lang 2
204	Nederland
206	Belgium 1
208	FRANCE
214	SPAIN
216	Hungary
219	Croatia Nacional
220	Serbia
222	ITALY
226	Romania
228	Switzerland
230	CZECH
231	Slovak
232	Austria 1
235	ENGLAND
238	DENMARK
240	Sweden
242	Norway
244	Finland
248	Estonia
255	Ukraine
259	Moldova
260	Poland

**TALKGROUP LIST
SORTED BY NAME**

TG	Name
2285	Aargau / Zentral
22261	Abruzzo
31363	ADK
26225	AFU-Nord
3101	AL Statewide
31010	Alabama Link
3102	Alaska
31675	Albany ARES
31079	Alert Radio
31013	ALERT-K4NWS
2685	Algarve
26287	Allg??u-Bodensee
3167	Allstar
31676	Allstar 46031/Wi
22814	Alpes Valaisanne
22813	Alpes Vaudoises
31485	Amarillo wires-x
7221	AR AMBA
7229	AR Test
7227	AR WIRES-X Digit
31807	AREC-DSTAR
31809	AREC-DSTAR-XREF
31806	AREC-FUSION
31810	AREC-MULTI-P-XLX
31808	AREC-WIRES-X
27230	AREN logistics
2729	AREN Tactical
31162	ARES ID CENTRAL
31161	ARES ID N
31164	ARES ID SE
31165	ARES ID SW
31160	ARES Idaho
722	ARGENTINA
3104	Arizona
3105	Arkansas
31229	ArkLaTex

**REFL
SORTED BY RE**

REFLECTOR
5000
4000
4001
4011
4016
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4214
4232
4250
4251
4252
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262	GERMANY
268	PORTUGAL
270	Luxembourg
272	Ireland
280	Cyprus
284	Bulgaria
286	Turkey
292	San Marino
297	Montenegro
302	CANADA
310	TAC 310 USA
311	TAC 311 USA
312	TAC 312 USA
313	TAC 313 USA
314	TAC 314 USA
315	TAC 315 USA
316	TAC 316 USA
317	TAC 317 USA
318	TAC 318 USA
319	TAC 319 USA
334	XE 1
358	Saint Lucia
370	Dominican Republ
374	Trinidad / Tobag
404	India
425	Israel
440	Japan
450	South Korea ref
454	Hong Kong
460	China
502	Malaysia Nationa
505	Australia 1
515	Philippines
520	Thailand
525	Singapore
655	South Africa
704	Guatemala
714	Panama
722	ARGENTINA
724	Brazil
730	CHILE
734	VENEZUELA
748	URUGUAY
855	KF4LZA (TG855)
856	KF4LZA (TG856)

74803	Artigas
31051	ARWX
31131	Atlanta Metro
9410	ATV Talk
505	Australia 1
5052	Australia New So
5058	Australia Northe
5054	Australia Queens
5057	Australia Tasman
5053	Australia Victor
5051	Australian capit
232	Austria 1
2686	Azores
26271	Baden
2627	Baden-W??rttembe
2284	Basel 1
22281	Basilicata
2628	Bayern
31075	BayNet
206	Belgium 1
2063	Belgium East
2061	Belgium North
20601	Belgium North YS
2064	Belgium OnDemand
2065	Belgium OnDemand
2066	Belgium OnDemand
2067	Belgium OnDemand
2068	Belgium OnDemand
2069	Belgium OnDemand
2062	Belgium South
20602	Belgium South YS
2621	Berlin/Brandenbu
26212	Berlin-City
2283	Bern / Solothurn
31303	BGV
2301	Bohemia
26209	Braandenburg
31293	Branson Area
31671	BRARA-FL
724	Brazil
9505	Bridge to Radioc
2724	Bridge to YSF-IE
22820	Bridge YSF-HB9
284	Bulgaria
2324	Burgenland

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907	JOTA
910	German
913	English
914	SPANISH
915	Portuguese
918	YOTA
920	DL, OE, HB9
922	Dutch
923	EURO ENGLISH
927	Nordic
930	PanHellenic Chat
937	Francophone
955	WWYL
969	DMR-Caribbean
2041	Noord Nederland
2042	Midden Nederland
2043	Zuid Nederland
2044	Oost Nederland
2045	Nederland Techta
2061	Belgium North
2062	Belgium South
2063	Belgium East
2064	Belgium OnDemand
2065	Belgium OnDemand
2066	Belgium OnDemand
2067	Belgium OnDemand
2068	Belgium OnDemand
2069	Belgium OnDemand
2080	France Ile De Fr
2081	France Mediterra
2082	France Alpes 2
2083	France Midi Pyre
2084	France Est 4
2085	France Ouest
2086	France Atlantiqu
2087	France Nord 7
2088	France Centre 8
2089	France DOM-TOM
2141	Regional EA1
2142	Regional EA2
2143	Regional EA3
2144	Regional EA4
2145	Regional EA5
2146	Regional EA6
2147	Regional EA7

26278	BW Herrenberg
26274	BW-B??blingen
26279	BW-Mittlerer-Nec
26273	BW-Ostalb
31201	BYRG
31202	BYRG 2
3106	CA Statewide
3185	CACTUS
2260	Cafe Gratis TG
31061	Cal 1
22282	Calabria
22283	Campania
302	CANADA
30271	Canada BC 1
30272	Canada BC 2
3026	Canada English
3027	Canada Francais
74804	Canelones
2683	Capital
310604	CARLA
31374	Carolina Link
31299	CASS County ARES
3581	Castries
31805	CCDMR
31076	CDM
310992	CDRA Connecticut
7300	CE0
7301	CE1
7302	CE2
7303	CE3
7304	CE4
7305	CE5
7306	CE6
7307	CE7
7308	CE8
7309	CE9
31015	Central Alabama
311752	Central IL
74805	Cerro Largo
26223	Chaoswelle
2351	Chat 2351
2352	Chat 2352
2353	Chat 2353
2386	Chat 2386
2387	Chat 2387

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2148	Regional EA8
2149	Regional EA9
2161	Hungary East
2162	Hungary West
2163	Hungary North
2164	Hungary South
2165	Hungary Test
2260	Cafe Gratis TG
2262	District YO2
2263	District YO3
2264	District YO4
2265	District YO5
2266	District YO6
2267	District YO7
2268	District YO8
2269	District YO9
2280	Schweiz Deutsch
2281	Suisse Romande
2282	Valais / Wallis
2283	Bern / Solothurn
2284	Basel 1
2285	Aargau / Zentral
2286	Ticino
2287	Graub??nden
2289	Ostschweiz
2300	Czech Crossconec
2301	Bohemia
2302	Moravia
2311	Slovakia
2320	OE-Master
2321	Wien
2322	Salzburg
2323	Niederoesterreic
2324	Burgenland
2325	Oberoesterreich
2326	Steiermark
2327	Tirol
2328	Kaernten
2329	Vorarlberg
2350	United Kingdom 4
2351	Chat 2351
2352	Chat 2352
2353	Chat 2353
2354	IRELAND
2355	SCOTLAND

25524	Cherkas`ka obl
25525	Chernigivs`ka ob
25526	Chernivets`ka ob
730	CHILE
460	China
46007	China 7 ???
31172	CHI-NET
31204	CKRG
73099	CL-WIRES-X-DMR
31179	Cnt IL Wires-X
26286	Coburg-Rennsteig
31888	CoffeeDMR
9500	Collegiate
7142	Colon
74806	Colonia
3108	Colorado
31080	Colorado Chat
31088	Colorado HD
3109	Connecticut
20821	Corsica
25511	Crimea
219	Croatia Nacional
31189	Crossroads State
31619	CRTS
74830	CX TAC 1
74840	CX TAC 2
280	Cyprus
230	CZECH
2300	Czech Crossconec
312656	DARN (Kalamazoo)
3110	Delaware
238	DENMARK
2384	Denmark Copenhag
2382	Denmark Midtjylland
2381	Denmark Nordjylland
2385	Denmark Sjaellan
2383	Denmark Syddanma
31125	Disney-Network
2262	District YO2
2263	District YO3
2264	District YO4
2265	District YO5
2266	District YO6
2267	District YO7
2268	District YO8

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2357	WALES
2381	Denmark Nordjyll
2382	Denmark Midtjyll
2383	Denmark Syddanma
2384	Denmark Copenhagen
2385	Denmark Sjaellan
2386	Chat 2386
2387	Chat 2387
2388	D-Star DCS699B
2389	Wires-X 41365
2400	Regional SM0
2401	Regional SM1
2402	Regional SM2
2403	Regional SM3
2404	Regional SM4
2405	Regional SM5
2406	Regional SM6
2407	Regional SM7
2411	SM Tactical
2415	XRF699N/YSF699
2440	Regional OH0
2441	Regional OH1
2442	Regional OH2
2443	Regional OH3
2444	Regional OH4
2445	Regional OH5
2446	Regional OH6
2447	Regional OH7
2448	Regional OH8
2449	Regional OH9
2501	Russia Global
2502	XRF250A Bridge
2503	DSTAR-SU / 24009
2555	Ukraine bridge D
2559	Emergency Ukrain
2620	Sachsen-Anhalt/M
2621	Berlin/Brandenbu
2622	Hamburg/Schleswi
2623	Niedersachsen/Br
2624	Nordrhein-Westfa
2625	Rheinland-Pfalz/
2626	Hessen
2627	Baden-W??rttembe
2628	Bayern
2629	Sachsen/Th??ring

2269	District YO9
920	DL, OE, HB9
202012	DMO Chat
26226	DMR Netzverbund
31666	DMR of Anarchy
31489	DMR Track
969	DMR-Caribbean
25504	Dnirpo obl
370	Dominican Republ
25505	Donets`ka obl
26232	Dreil??ndereck M
2388	D-Star DCS699B
22292	Dstar ITALY
2503	DSTAR-SU / 24009
74807	Durazno
922	Dutch
202011	DV4 Chat
3166	DVSwitch
31059	E.A.R.S.
21468	EA8EE-R
31177	East Central IL
5022	East Malaysia
23590	East Midlands
31373	Eastern NC
26224	Elbe-Weser
9112	Emcom EU
9911	Emcom US
214112	Emergencias
2559	Emergency Ukrain
25599	Emergency Zakarp
222112	Emergenza-112
222113	Emergenza-113
22241	Emilia Romagna
235	ENGLAND
913	English
248	Estonia
24810	Estonia-RUS / ha
9201	EURAO
923	EURO ENGLISH
92	EUROPE
2803	Famagusta
244	Finland
31121	First Coast DMR
90175	FL DMR 1
90275	FL DMR 2

2681	Regional North
2682	Regional Center
2683	Capital
2684	South
2685	Algarve
2686	Azores
2687	Madeira Is.
2701	Luxembourg South
2702	Luxembourg North
2703	Luxembourg Cente
2707	LX Laru
2722	IE Calling
2723	IE Chat
2724	Bridge to YSF-IE
2729	AREN Tactical
2802	Nicosia
2803	Famagusta
2804	Larnaca
2805	Limassol
2806	Paphos
2807	Kyrenia
2842	Sofia
2843	Plovdiv
2860	Istanbul
3023	Ontario Cross-Li
3026	Canada English
3027	Canada Francais
3100	USA - Nationwide
3101	AL Statewide
3102	Alaska
3104	Arizona
3105	Arkansas
3106	CA Statewide
3108	Colorado
3109	Connecticut
3110	Delaware
3111	Wash DC
3112	FL State
3113	GA Statewide
3115	Hawaii
3116	Idaho
3117	IL Statewide
3118	Indiana
3119	Iowa
3120	Kansas

3112	FL State
31120	FL Tac 1
74808	Flores
74809	Florida
31670	Florida Gulf Coa
208	FRANCE
2082	France Alpes 2
2086	France Atlantiqu
2088	France Centre 8
2089	France DOM-TOM
2084	France Est 4
2080	France Ile De Fr
2081	France Mediterra
2083	France Midi Pyre
2087	France Nord 7
2085	France Ouest
2080332	France/DCS033C 1
2080673	France/XRF067C 1
937	Francophone
22231	Friuli Venezia G
31474	Fusion-Link
3113	GA Statewide
31130	GA Tac 1
214012	Galicia
22603	Gate to ROLINK
31477	Gatlinburg
31773	Geeks in Jeeps
22812	Gen??ve
910	German
262	GERMANY
31669	Global DX System
95150	Global NorCal 51
313323	GMARS
313324	GMARS 2
2287	Graub??nden
31699	Greek Americans
202030	Greek QSO net
26220	Grossraum Hambur
704	Guatemala
70404	Guatemala Area 4
70405	Guatemala Area 5
70406	Guatemala Area 6
70407	Guatemala Area 7
70408	Guatemala Area 8
70409	Guatemala Area 9

3121	KY Statewide
3122	Louisiana
3123	Maine
3124	MD Statewide
3125	MA Statewide
3126	MI Statewide
3127	MN Statewide
3128	Mississippi
3129	Missouri
3130	Montana
3131	Nebraska
3132	Nevada
3133	New Hampshire
3134	NJ Statewide
3135	New Mexico
3136	NY Statewide
3137	NC Statewide
3138	North Dakota
3139	OH Statewide
3140	Oklahoma
3141	Oregon
3142	PA Statewide
3144	RI Statewide
3145	SC Statewide
3146	South Dakota
3147	TN Statewide
3148	TX Statewide
3149	Utah
3150	Vermont
3151	VA Statewide
3153	WA Statewide
3154	West Virginia
3155	WI Statewide
3156	Wyoming
3166	DVSwitch
3167	Allstar
3169	MW Regional
3171	NoCo
3172	NE Regional
3173	Mid Atl Regional
3174	SE Regional
3175	SP Regional
3176	SW Regional
3177	MT Regional
3181	New England

70403	Guatemala Evento
31011	Gulf Coast DMR
2622	Hamburg/Schleswi
26221	Hamburg-City
46609	HAMTalk Club
31990	Handi-Hams
202199	HAREN
3115	Hawaii
31150	Hawaii 2
31153	Hawaii County
22810	HB9-BM-WIRESX
20203	Hellenic Echolin
20201	Hellenic Tech 1
20202	Hellenic Tech 2
2626	Hessen
31158	HMASN
454	Hong Kong
31152	Honolulu County
31375	Hornet's Nest
31014	HSV
216	Hungary
2161	Hungary East
2163	Hungary North
2164	Hungary South
2165	Hungary Test
2162	Hungary West
3199	Hurricane Net
31325	HXO
31089	Hytera USA
95	I-95 (TG95)
31192	IA ALO 2
31196	IA CID 6
31191	IA DSM 1
31193	IA NW 3
31195	IA SE 5
31194	IA SW 4
3116	Idaho
2722	IE Calling
2723	IE Chat
3117	IL Statewide
31171	IL-Fusion
404	India
3118	Indiana
31181	Indiana Analog
31180	Indiana Chat

3185	CACTUS
3190	NorPA
3199	Hurricane Net
3341	XE 2
3342	XE 4
3343	XE 6
3581	Castries
3582	VieuX Fort
3740	REACT
3741	Woodbrook
3742	Port of Spain
3743	San Fernando
3744	Tobago
5000	REF Query
5021	West Malaysia
5022	East Malaysia
5050	XLX500 G
5051	Australian capit
5052	Australia New So
5053	Australia Victor
5054	Australia Queens
5055	South Australia
5056	Western Australi
5057	Australia Tasman
5058	Australia Northe
5059	YSF001 wires-x
7141	Panama City
7142	Colon
7143	wires-x fusion I
7221	AR AMBA
7227	AR WIRES-X Digit
7229	AR Test
7300	CE0
7301	CE1
7302	CE2
7303	CE3
7304	CE4
7305	CE5
7306	CE6
7307	CE7
7308	CE8
7309	CE9
8951	TAC 1
8952	TAC 2
8953	TAC 3

3119	Iowa
31190	Iowa Chat
272	Ireland
2354	IRELAND
23540	Ireland ref Chat
425	Israel
2860	Istanbul
222	ITALY
25509	Ivano frankivs`k
440	Japan
907	JOTA
9071	JOTA Tac 1
9072	JOTA Tac 2
316273	JSC
31365	K2MAK
315409	K8DLT Beckley WV
2328	Kaernten
3120	Kansas
31203	KansasLink
31154	Kauai County
31205	KC Skywarn
31298	KCN ARES
855	KF4LZA (TG855)
856	KF4LZA (TG856)
25521	Kharkivs`ka obl
25522	Khersons`ka obl
25523	Khmel`nyts`ka ob
25501	KIEV UKR
25510	Kiev's obl
31620	Kings of Digital
31621	Kings of Digital
31473	Knox-Metro area
25512	Kropyvnyts`kyj o
316274	KSC
31211	KY ARES Statewid
3121	KY Statewide
2807	Kyrenia
313327	LARK
2804	Larnaca
31327	Las Vegas
74810	Lavalleja
22201	Lazio
20859	Les amis du Nord
22211	Liguria
2805	Limassol

8954	TAC 4
8955	TAC 5
8956	TAC 6
8957	TAC 7
8958	TAC 8
8959	TAC 9
9071	JOTA Tac 1
9072	JOTA Tac 2
9101	Worldwide Mariti
9107	XRF007 B
9112	Emcom EU
9201	EURAO
9410	ATV Talk
9500	Collegiate
9502	XRF250C Bridge
9505	Bridge to Radioc
9911	Emcom US
9990	Parrot 9990
9998	Parrot 9998
9999	NorCal Meter
20201	Hellenic Tech 1
20202	Hellenic Tech 2
20203	Hellenic Echolin
20206	XLX145/DStar
20208	YSF202 Greece
20401	Wires-X Hobbysco
20421	Regio Keistad
20441	Regio IJsselmond
20494	YSF444
20601	Belgium North YS
20602	Belgium South YS
20811	YSF France
20821	Corsica
20859	Les amis du Nord
20869	Lyon Rhone-Alpes
21401	Provincial Araba
21402	Provincial Albac
21403	Provincial Alica
21404	Provincial Almer
21405	Provincial Avila
21406	Provincial Badaj
21407	Provincial Illes
21408	Provincial Barce
21409	Provincial Burgo
21410	Provincial C??ce

2	Local 2 (TG2)
9	Local 9 (TG9)
22221	Lombardia
3122	Louisiana
31456	Low Country
31364	Lower Hudson Val
25513	Lugans`ka obl
270	Luxembourg
2703	Luxembourg Cente
2702	Luxembourg North
2701	Luxembourg South
25514	Lvivs`ka obl
2707	LX Laru
20869	Lyon Rhone-Alpes
23562	M62 Corridor
3125	MA Statewide
2687	Madeira Is.
3123	Maine
502	Malaysia Nationa
74811	Maldonado
22262	Marche
91665	Marines RNLMC
31151	Maui County
31730	MAWSCoord
3124	MD Statewide
314706	Mem Metro
31471	Memphis-MidSouth
3126	MI Statewide
31263	Mi5-EVENT1
31265	Mi5-EVENT3
31261	Mi5-STATEWIDE1
31262	Mi5-STATEWIDE2
31264	Michigan DRG
31326	Micro-Node
3173	Mid Atl Regional
2042	Midden Nederland
31368	Mid-Hudson Valle
23580	Midlands
31458	Midlands2
31470	Mid-South Chat
3128	Mississippi
3129	Missouri
31290	Missouri ARES
26260	Mittelhessen
3127	MN Statewide

21411	Provincial C??di
21412	Provincial Caste
21413	Provincial Ciuda
21414	Provincial C??rd
21415	Provincial Coru?
21416	Provincial Cuenc
21417	Provincial Giron
21418	Provincial Grana
21419	Provincial Guada
21420	Provincial Gipuz
21421	Provincial Huelv
21422	Provincial Huesc
21423	Provincial Jaen
21424	Provincial Leon1
21425	Provincial Lleid
21427	Provincial Lugo
21428	Provincial Madri
21429	Provincial M??la
21430	Provincial Murci
21431	Provincial Navar
21432	Provincial Ouren
21433	Provincial Astur
21434	Provincial Palen
21436	Provincial Ponte
21437	Provincial Salam
21438	Provincial Tener
21439	Provincial Canta
21440	Provincial Segov
21441	Provincial Sevil
21442	Provincial Soria
21443	Provincial Tarra
21444	Provincial Terue
21445	Provincial Toled
21446	Provincial Valen
21447	Provincial Valla
21448	Provincial Bizka
21449	Provincial Zamor
21450	Provincial Zarag
21451	Provincial Ceuta
21452	Pronvical Melill
21460	TG de uso libre
21461	YSF-EA5 Spain
21463	TG de uso libre1
21464	TG de uso libre2
21466	TG de uso libre3

31271	MNDMR
259	Moldova
22284	Molise
31369	Monroe County
3130	Montana
31300	Montana Chat
297	Montenegro
74801	Montevideo1
74802	Montevideo2
2302	Moravia
31062	Mountain West
31063	Mountain West 1
31301	MPRG
31302	MPRG 2
3177	MT Regional
31777	Mtn West TAC 1
26242	Muensterland
3169	MW Regional
50210	MY Wires-X YSF B
25515	Mykolaivs`ka obl
23520	N.West
31349	N2MO OMARC
3	NA (TG3)
31175	NA Astronomy
316272	NASA
31664	Nature Coast
3137	NC Statewide
31128	NE FL ARES
31212	NE KY WX Spotter
3172	NE Regional
3131	Nebraska
26276	Neckar-Alb
26272	Neckar-Odenwald
204	Nederland
2045	Nederland Techta
3132	Nevada
31321	Nevada 1
3181	New England
3133	New Hampshire
3135	New Mexico
26231	NI Mitte
26331	NI Ost
2802	Nicosia
2323	Niederosterreic
2623	Niedersachsen/Br

21467	YSF Bizkaia
21468	EA8EE-R
21469	TG de uso libre4
21470	TG de uso libre5
21471	TG de uso libre6
22201	Lazio
22202	Sardegna
22203	Umbria
22211	Liguria
22212	Piemonte
22213	Valle d'??Aosta
22221	Lombardia
22231	Friuli Venezia G
22232	Trentino Alto Ad
22233	Veneto
22241	Emilia Romagna
22251	TOSCANA
22261	Abruzzo
22262	Marche
22271	Puglia
22281	Basilicata
22282	Calabria
22283	Campania
22284	Molise
22291	SICILIA
22292	Dstar ITALY
22298	Wires-X ITALY-NO
22299	WIRESX-Room-ITA
22603	Gate to ROLINK
22801	UA 1
22802	UA 2
22803	UA 3
22804	UA 4
22810	HB9-BM-WIRESX
22811	Vaud
22812	Gen??ve
22813	Alpes Vaudoises
22814	Alpes Valaisanne
22820	Bridge YSF-HB9
22860	Swiss-Italiana
22877	Poschiavo
23200	TAC 1 Austria
23299	TAC 2 Austria
23500	S.West
23510	S.East

26236	NI-Nord
26234	NI-Sued
3134	NJ Statewide
31340	NJPAasterisk
3171	NoCo
2041	Noord Nederland
31068	NorCal
31069	NorCal 1
31065	NorCal AllStar
9999	NorCal Meter
26261	Nordhessen
927	Nordic
2624	Nordrhein-Westfa
3190	NorPA
93	North America
3138	North Dakota
23560	North East
31424	North East PA
31601	North East PA2
31342	North Jersey
31481	North Texas
31423	North-Central PA
31391	NorthEast Ohio
31491	Northern Utah
242	Norway
310506	NSX Beta
310501	NSX Local
31294	NW Missouri
31304	NW7RG-USA
31199	NWS DMX/SEOC
31198	NWS DVN
31472	NWS-Skywarn
31366	NY METRO ARES
3136	NY Statewide
31362	NY-Metro
31360	NY-NJ-PA TriStat
2325	Oberoesterreich
26289	Oberpfalz
31660	Ocean County NJ
25516	Odes'ka obl
31677	OEI Repeater Gro
2320	OE-Master
3139	OH Statewide
31390	Ohio TAC
31399	Ohio-Link-YSF

23520	N.West
23540	Ireland ref Chat
23550	Scotland refChat
23560	North East
23562	M62 Corridor
23570	Wales Chat
23580	Midlands
23590	East Midlands
24098	Robust Packet Ne
24431	Regional OH3 Tam
24432	Regional OH3 Lah
24465	TG de uso libre7
24810	Estonia-RUS / ha
25501	KIEV UKR
25502	Vinnyts`ka obl
25503	Volyns`ka obl
25504	Dnirpo obl
25505	Donets`ka obl
25506	Zhytomyrs`ka obl
25507	Zakarpats`ka obl
25508	Zaporiz`ka obl
25509	Ivano frankivs`k
25510	Kiev's obl
25511	Crimea
25512	Kropyvnyts`kyj o
25513	Lugans`ka obl
25514	Lvivs`ka obl
25515	Mykolaivs`ka obl
25516	Odes`ka obl
25517	Poltavs`ka obl
25518	Rivnens`ka obl
25519	Sums`ka obl
25520	Ternopils`ka obl
25521	Kharkivs`ka obl
25522	Khersons`ka obl
25523	Khmel`nyts`ka ob
25524	Cherkas`ka obl
25525	Chernigivs`ka ob
25526	Chernivets`ka ob
25527	Sevastopol
25599	Emergency Zakarp
26040	Poland Tech
26209	Braandenburg
26212	Berlin-City
26220	Grossraum Hambur

31400	OK TAC
31401	OK1-Central
3140	Oklahoma
31667	Old Friends
31661	OMIK
3023	Ontario Cross-Li
2044	Oost Nederland
3141	Oregon
31410	Oregon TAC
26222	Ostholstein-Nord
26228	Ostholstein-Sued
2289	Ostschweiz
31772	OUTDOOR ADVENTUR
50525	P25 50525 Bridge
3142	PA Statewide
31421	PA Tac
714	Panama
7141	Panama City
930	PanHellenic Chat
31077	PAPA DMR
2806	Paphos
31081	Park County Colo
310997	Parrot
9990	Parrot 9990
9998	Parrot 9998
74812	Paysand??
31459	Pee Dee, SC
31420	PEMA ACS
515	Philippines
2049125	PI2NOS
22212	Piemonte
31812	PINELLAS-DSTAR-D
31813	PINELLAS-DSTAR-X
31814	PINELLAS-MULTI-P
31811	PINELLAS-WIRESEX
31775	PINOYHAMS
31672	PI-Star Chat
2843	Plovdiv
31771	PNWR
31530	PNW-West
260	Poland
26040	Poland Tech
25517	Poltavs`ka obl
3742	Port of Spain
268	PORTUGAL

26221	Hamburg-City
26222	Ostholstein-Nord
26223	Chaoswelle
26224	Elbe-Weser
26225	AFU-Nord
26226	DMR Netzverbund
26228	Ostholstein-Sued
26231	NI Mitte
26232	Dreil??ndereck M
26234	NI-Sued
26236	NI-Nord
26241	Rheinland
26242	Muensterland
26243	Ruhrgebiet
26245	Rheinland-Sued
26250	Saarland
26260	Mittelhessen
26261	Nordhessen
26262	Rhein-Main-Necka
26270	Stuttgart
26271	Baden
26272	Neckar-Odenwald
26273	BW-Ostalb
26274	BW-B??blingen
26275	Schwarzwald-Nord
26276	Neckar-Alb
26277	Schwarzwald
26278	BW Herrenberg
26279	BW-Mittlerer-Nec
26282	Schwaben
26283	Region M??nchen
26284	Region Franken
26285	Region Ingolstad
26286	Coburg-Rennsteig
26287	Allg??u-Bodensee
26288	Region Bayern Ob
26289	Oberpfalz
26301	Sachsen-Erzgebir
26331	NI Ost
27230	AREN logistics
28091	Youth 1
28092	Youth 2
28096	XLX146
28097	WiresX Cyprus
30271	Canada BC 1

915	Portuguese
22877	Poschiavo
21452	Prnovical Melill
21402	Provincial Albac
21403	Provincial Alica
21404	Provincial Almer
21401	Provincial Araba
21433	Provincial Astur
21405	Provincial Avila
21406	Provincial Badaj
21408	Provincial Barce
21448	Provincial Bizka
21409	Provincial Burgo
21410	Provincial C??ce
21411	Provincial C??di
21414	Provincial C??rd
21439	Provincial Canta
21412	Provincial Caste
21451	Provincial Ceuta
21413	Provincial Ciuda
21415	Provincial Coru?
21416	Provincial Cuenc
21420	Provincial Gipuz
21417	Provincial Giron
21418	Provincial Grana
21419	Provincial Guada
21421	Provincial Huelv
21422	Provincial Huesc
21407	Provincial Illes
21423	Provincial Jaen
21424	Provincial Leon1
21425	Provincial Lleid
21427	Provincial Lugo
21429	Provincial M??la
21428	Provincial Madri
21430	Provincial Murci
21431	Provincial Navar
21432	Provincial Ouren
21434	Provincial Palen
21436	Provincial Ponte
21437	Provincial Salam
21440	Provincial Segov
21441	Provincial Sevil
21442	Provincial Soria
21443	Provincial Tarra

30272	Canada BC 2
31010	Alabama Link
31011	Gulf Coast DMR
31012	QuadNet-BM
31013	ALERT-K4NWS
31014	HSV
31015	Central Alabama
31051	ARWX
31059	E.A.R.S.
31060	PVARC
31061	Cal 1
31062	Mountain West
31063	Mountain West 1
31064	Santa Clara Coun
31065	NorCal AllStar
31066	SoCal
31067	SoCal 1
31068	NorCal
31069	NorCal 1
31070	VCDRC
31071	VCDRC 2
31072	TARA
31073	SBARC
31074	Tri-Counties
31075	BayNet
31076	CDM
31077	PAPA DMR
31078	XLX013D PAPA
31079	Alert Radio
31080	Colorado Chat
31081	Park County Colo
31088	Colorado HD
31089	Hytera USA
31090	USA Area0
31091	USA Area1
31092	USA Area2
31093	USA Area3
31094	USA Area4
31095	USA Area5
31096	USA Area6
31097	USA Area7
31098	USA Area8
31099	USA Area9
31116	The After-Net
31120	FL Tac 1

21438	Provincial Tener
21444	Provincial Terue
21445	Provincial Toled
21446	Provincial Valen
21447	Provincial Valla
21449	Provincial Zamor
21450	Provincial Zarag
31623	Public Safety Ch
22271	Puglia
31060	PVARC
310991	PVRA Connecticut
31207	QRM Chat Room
31012	QuadNet-BM
74813	R Negro
31673	R5AUXCOMM
250112	Radio Amateur Re
3740	REACT
5000	REF Query
20441	Regio IJsselmond
20421	Regio Keistad
26288	Region Bayern Ob
26284	Region Franken
26285	Region Ingolstad
26283	Region M??nchen
2682	Regional Center
2141	Regional EA1
2142	Regional EA2
2143	Regional EA3
2144	Regional EA4
2145	Regional EA5
2146	Regional EA6
2147	Regional EA7
2148	Regional EA8
2149	Regional EA9
2681	Regional North
2440	Regional OH0
2441	Regional OH1
2442	Regional OH2
2443	Regional OH3
24432	Regional OH3 Lah
24431	Regional OH3 Tam
2444	Regional OH4
2445	Regional OH5
2446	Regional OH6
2447	Regional OH7

31121	First Coast DMR
31122	South West FL
31123	Treasure Coast
31124	South East FL
31125	Disney-Network
31128	NE FL ARES
31129	Space Coast
31130	GA Tac 1
31131	Atlanta Metro
31150	Hawaii 2
31151	Maui County
31152	Honolulu County
31153	Hawaii County
31154	Kauai County
31158	HMASN
31160	ARES Idaho
31161	ARES ID N
31162	ARES ID CENTRAL
31163	W9RCG Robert
31164	ARES ID SE
31165	ARES ID SW
31166	TC ID ARES
31171	IL-Fusion
31172	CHI-NET
31174	TALARC
31175	NA Astronomy
31177	East Central IL
31178	WXCTAC
31179	Cnt IL Wires-X
31180	Indiana Chat
31181	Indiana Analog
31182	WA9RN Operations
31189	Crossroads State
31190	Iowa Chat
31191	IA DSM 1
31192	IA ALO 2
31193	IA NW 3
31194	IA SW 4
31195	IA SE 5
31196	IA CID 6
31198	NWS DVN
31199	NWS DMX/SEOC
31201	BYRG
31202	BYRG 2
31203	KansasLink

2448	Regional OH8
2449	Regional OH9
2400	Regional SM0
2401	Regional SM1
2402	Regional SM2
2403	Regional SM3
2404	Regional SM4
2405	Regional SM5
2406	Regional SM6
2407	Regional SM7
31419	RepeaterBook
208647	Reunion Island1
647647	Reunion Island2
31770	RFINDER M1
31428	RF-IT
26241	Rheinland
2625	Rheinland-Pfalz/
26245	Rheinland-Sued
26262	Rhein-Main-Necka
31441	Rhode Island Cha
31444	Rhode Island Dig
3144	RI Statewide
74814	Rivera
25518	Rivnens' ka obl
24098	Robust Packet Ne
74815	Rocha
226	Romania
208900	Room Auneuil
208962	Room Boulogne
208201	Room Come Belle
208405	Room Dangolsheim
208404	Room F1ULQ
208003	Room Fontenay
208617	Room La Rochelle
208209	Room Les Andrieu
208905	Room Lille
208007	Room Malmaison
208922	Room Mesnil/Bull
208954	Room Nancy
208077	Room Nangis
208980	Room Paris
208075	Room Paris 15
208799	Room Perpignan
208766	Room Pic Neulos
208204	Room Planfoy

31204	CKRG
31205	KC Skywarn
31207	QRM Chat Room
31208	WY CO RACES
31209	WY CO CERT
31210	XRF210 D
31211	KY ARES Statewid
31212	NE KY WX Spotter
31229	ArkLaTex
31241	XRF336 C
31254	XRF054 C
31261	Mi5-STATEWIDE1
31262	Mi5-STATEWIDE2
31263	Mi5-EVENT1
31264	Michigan DRG
31265	Mi5-EVENT3
31268	UP of Michigan
31269	WMTG
31271	MNDMR
31281	XRF813 A
31290	Missouri ARES
31291	SWMO
31292	STL Metro
31293	Branson Area
31294	NW Missouri
31295	SE Missouri
31297	SW MO SkyWarn
31298	KCN ARES
31299	CASS County ARES
31300	Montana Chat
31301	MPRG
31302	MPRG 2
31303	BGV
31304	NW7RG-USA
31321	Nevada 1
31322	VOAD
31325	HXO
31326	Micro-Node
31327	Las Vegas
31328	SNARS (Reno/Taho
31329	SNARS 2
31340	NJPAAsterisk
31341	South Jersey
31342	North Jersey
31349	N2MO OMARC

208990	Room Pontarlier
647010	Room Saint-Benoit
208205	Room Saint-Peray
208302	Room Toulouse
208301	Room Tour Crieu
208959	Room Valenciennes
228111	Room Verbier
208091	Room Villebon
208093	Room Villebon2
208963	RPT Capelle L.G.
208921	RPT Dijon JN27mh
206701	RPT Gembloux JO2
208911	RPT St Amand JO1
26243	Ruhrgebiet
950603	Russia Moscow U
950617	Russia / Caspian
950610	Russia / Chelyab
950614	Russia / Domoded
950605	Russia / Ekateri
950613	Russia / Ekateri
950600	Russia / Ivanovo
950608	Russia / Kalinin
950618	Russia / Kirov
950627	Russia / Krasnod
950625	Russia / Krasnog
950622	Russia / Krasnoy
950623	Russia / Krasnoy
950611	Russia / Moscow
950624	Russia / Mozhays
950626	Russia / Narofom
950612	Russia / Omsk
250629	Russia / Orel
950616	Russia / Rostov
950615	Russia / Rostov-
950606	Russia / Saint P
250630	Russia / Sergiev
950628	Russia / Sevasto
250632	Russia / Syberia
950609	Russia / Syktyvk
950601	Russia / Tarko-S
950602	Russia / Tarko-S
250631	Russia / Uglich
950607	Russia / Verkhna
950619	Russia / Volgodo
2501	Russia Global

31360	NY-NJ-PA TriStat
31361	Upstate NY
31362	NY-Metro
31363	ADK
31364	Lower Hudson Val
31365	K2MAK
31366	NY METRO ARES
31367	Southern Tier NY
31368	Mid-Hudson Valle
31369	Monroe County
31371	Triangle, NC
31373	Eastern NC
31374	Carolina Link
31375	Hornet's Nest
31390	Ohio TAC
31391	NorthEast Ohio
31399	Ohio-Link-YSF
31400	OK TAC
31401	OK1-Central
31410	Oregon TAC
31419	RepeaterBook
31420	PEMA ACS
31421	PA Tac
31422	Western PA
31423	North-Central PA
31424	North East PA
31427	Tri-County
31428	RF-IT
31429	Zednet
31441	Rhode Island Cha
31444	Rhode Island Dig
31456	Low Country
31457	Upstate
31458	Midlands2
31459	Pee Dee, SC
31470	Mid-South Chat
31471	Memphis-MidSouth
31472	NWS-Skywarn
31473	Knox-Metro area
31474	Fusion-Link
31477	Gatlinburg
31479	The Light
31480	TX Chat
31481	North Texas
31482	South Texas

950621	Russia Moscow 1
950620	Russia Moscow 2
950604	Russia Moscow 3
31697	Russian American
23510	S.East
23500	S.West
26250	Saarland
2629	Sachsen/Th??ring
2620	Sachsen-Anhalt/M
26301	Sachsen-Erzgebir
358	Saint Lucia
74816	Salto
2322	Salzburg
3743	San Fernando
74817	San Jos??
292	San Marino
31064	Santa Clara Coun
22202	Sardegna
31073	SBARC
3145	SC Statewide
26282	Schwaben
26277	Schwarzwald
26275	Schwarzwald-Nord
2280	Schweiz Deutsch
2355	SCOTLAND
23550	Scotland refChat
31295	SE Missouri
3174	SE Regional
31803	Secret Talk Grou
220	Serbia
25527	Sevastopol
31514	Shenandoah Valle
44155	shounanYSF
22291	SICILIA
99	Simplex (TG99)
525	Singapore
37030	Skynet
231	Slovak
2311	Slovakia
2411	SM Tactical
31328	SNARS (Reno/Taho
31329	SNARS 2
31066	SoCal
31067	SoCal 1
2842	Sofia

31483	West Texas
31484	SouthEast Texas
31485	Amarillo wires-x
31488	Texas-Nexus
31489	DMR Track
31491	Northern Utah
31512	Virginia ARES
31513	South West Virgi
31514	Shenandoah Valle
31515	Tidewater VA
31530	PNW-West
31551	WI--Fusion
31555	WI-DMR
31601	North East PA2
31619	CRTS
31620	Kings of Digital
31621	Kings of Digital
31622	South East FL2
31623	Public Safety Ch
31660	Ocean County NJ
31661	OMIK
31662	SPARC
31664	Nature Coast
31665	TGIF
31666	DMR of Anarchy
31667	Old Friends
31668	Sta-Mar
31669	Global DX System
31670	Florida Gulf Coa
31671	BRARA-FL
31672	PI-Star Chat
31673	R5AUXCOMM
31674	The Guild
31675	Albany ARES
31676	Allstar 46031/Wi
31677	OEI Repeater Gro
31691	Wi/Ia/IL
31697	Russian American
31699	Greek Americans
31730	MAWScOord
31770	RFINDER M1
31771	PNWR
31772	OUTDOOR ADVENTUR
31773	Geeks in Jeeps
31774	Weather Watching

74818	Soriano
2684	South
655	South Africa
5055	South Australia
3146	South Dakota
31124	South East FL
31622	South East FL2
31341	South Jersey
450	South Korea ref
31482	South Texas
31122	South West FL
31513	South West Virgi
31484	SouthEast Texas
31367	Southern Tier NY
3175	SP Regional
31129	Space Coast
214	SPAIN
914	SPANISH
31662	SPARC
222990	Special Activati
31668	Sta-Mar
2326	Steiermark
31292	STL Metro
26270	Stuttgart
2281	Suisse Romande
25519	Sums`ka obl
314242	SVARC
31297	SW MO SkyWarn
3176	SW Regional
240	Sweden
22860	Swiss-Italiana
228	Switzerland
31291	SWMO
8951	TAC 1
23200	TAC 1 Austria
8952	TAC 2
23299	TAC 2 Austria
8953	TAC 3
310	TAC 310 USA
311	TAC 311 USA
312	TAC 312 USA
313	TAC 313 USA
314	TAC 314 USA
315	TAC 315 USA
316	TAC 316 USA

31775	PINOYHAMS
31777	Mtn West TAC 1
31801	The Gathering Sp
31802	The Chat Lounge
31803	Secret Talk Grou
31805	CCDMR
31806	AREC-FUSION
31807	AREC-DSTAR
31808	AREC-WIRES-X
31809	AREC-DSTAR-XREF
31810	AREC-MULTI-P-XLX
31811	PINELLAS-WIRESX
31812	PINELLAS-DSTAR-D
31813	PINELLAS-DSTAR-X
31814	PINELLAS-MULTI-P
31888	CoffeeDMR
31990	Handi-Hams
37030	Skynet
44155	shounanYSF
46007	China 7 ???
46600	Taiwan ???
46609	HAMTalk Club
46610	Taiwan CTARL
50210	MY Wires-X YSF B
50501	XLX389A
50503	XLX389C
50510	XLX510 D
50525	P25 50525 Bridge
50531	VK3 Chat 1
50566	WICEN
50590	VK2HK-2-ROOM Wir
50591	VK2GP-ND wires-x
50592	VK3KAY-ROOM wire
50593	XRF740 C1
50594	VK2RFG-ROOM
50599	YSF001 XLX389D
53099	XLX750
70403	Guatemala Evento
70404	Guatemala Area 4
70405	Guatemala Area 5
70406	Guatemala Area 6
70407	Guatemala Area 7
70408	Guatemala Area 8
70409	Guatemala Area 9
73099	CL-WIRES-X-DMR

317	TAC 317 USA
318	TAC 318 USA
319	TAC 319 USA
8954	TAC 4
8955	TAC 5
8956	TAC 6
8957	TAC 7
8958	TAC 8
8959	TAC 9
222010	TAC10-ITA
222001	TAC1-ITA
222002	TAC2-ITA
222003	TAC3-ITA
222004	TAC4-ITA
222005	TAC5-ITA
222006	TAC6-ITA
222007	TAC7-ITA
222008	TAC8-ITA
222009	TAC9-ITA
74819	Tacuaremb'
46600	Taiwan ???
46610	Taiwan CTARL
31174	TALARC
31072	TARA
31166	TC ID ARES
25520	Ternopils' ka obl
31488	Texas-Nexus
21460	TG de uso libre
21463	TG de uso libre1
21464	TG de uso libre2
21466	TG de uso libre3
21469	TG de uso libre4
21470	TG de uso libre5
21471	TG de uso libre6
24465	TG de uso libre7
31665	TGIF
520	Thailand
31116	The After-Net
31802	The Chat Lounge
31801	The Gathering Sp
31674	The Guild
31479	The Light
2286	Ticino
31515	Tidewater VA
2327	Tirol

74801	Montevideo1
74802	Montevideo2
74803	Artigas
74804	Canelones
74805	Cerro Largo
74806	Colonia
74807	Durazno
74808	Flores
74809	Florida
74810	Lavalleja
74811	Maldonado
74812	Paysand??
74813	R Negro
74814	Rivera
74815	Rocha
74816	Salto
74817	San Jos??
74818	Soriano
74819	Tacuaremb'
74820	Treinta y Tres
74830	CX TAC 1
74840	CX TAC 2
90175	FL DMR 1
90275	FL DMR 2
91665	Marines RNLMC
95150	Global NorCal 51
202011	DV4 Chat
202012	DMO Chat
202030	Greek QSO net
202199	HAREN
206701	RPT Gembloux JO2
208003	Room Fontenay
208007	Room Malmaison
208075	Room Paris 15
208077	Room Nangis
208091	Room Villebon
208093	Room Villebon2
208201	Room Come Belle
208204	Room Planfoy
208205	Room Saint-Peray
208209	Room Les Andrieu
208301	Room Tour Crieu
208302	Room Toulouse
208404	Room F1ULQ
208405	Room Dangolsheim

3147	TN Statewide
3744	Tobago
22251	TOSCANA
31123	Treasure Coast
74820	Treinta y Tres
22232	Trentino Alto Ad
31371	Triangle, NC
31074	Tri-Counties
31427	Tri-County
310703	Tri-LERT
374	Trinidad / Tobag
286	Turkey
31480	TX Chat
3148	TX Statewide
22801	UA 1
22802	UA 2
22803	UA 3
22804	UA 4
119	UA All Lang 1
129	UA All Lang 2
113	UA English 1
123	UA English 2
255	Ukraine
2555	Ukraine bridge D
22203	Umbria
2350	United Kingdom 4
31268	UP of Michigan
31457	Upstate
31361	Upstate NY
748	URUGUAY
3100	USA - Nationwide
31090	USA Area0
31091	USA Area1
31092	USA Area2
31093	USA Area3
31094	USA Area4
31095	USA Area5
31096	USA Area6
31097	USA Area7
31098	USA Area8
31099	USA Area9
3149	Utah
3151	VA Statewide
2282	Valais / Wallis
22213	Valle d???Aosta

208617	Room La Rochelle
208647	Reunion Island1
208766	Room Pic Neulos
208799	Room Perpignan
208900	Room Auneuil
208905	Room Lille
208911	RPT St Amand JO1
208921	RPT Dijon JN27mh
208922	Room Mesnil/Bull
208954	Room Nancy
208959	Room Valenciennes
208962	Room Boulogne
208963	RPT Capelle L.G.
208980	Room Paris
208990	Room Pontarlier
214012	Galicia
214112	Emergencias
222001	TAC1-ITA
222002	TAC2-ITA
222003	TAC3-ITA
222004	TAC4-ITA
222005	TAC5-ITA
222006	TAC6-ITA
222007	TAC7-ITA
222008	TAC8-ITA
222009	TAC9-ITA
222010	TAC10-ITA
222112	Emergenza-112
222113	Emergenza-113
222990	Special Activati
226112	YO EMCOMM 112
226123	YO QSO PARTY
228111	Room Verbier
250112	Radio Amateur Re
250629	Russia / Orel
250630	Russia / Sergiev
250631	Russia / Uglich
250632	Russia / Syberia
268940	XRF040 A
268941	XRF040 B
268942	XRF789 B
310501	NSX Local
310506	NSX Beta
310604	CARLA
310703	Tri-LERT

22811	Vaud
31070	VCDRC
31071	VCDRC 2
22233	Veneto
734	VENEZUELA
3150	Vermont
3582	VieuX Fort
25502	Vinnys`ka obl
31512	Virginia ARES
50591	VK2GP-ND wires-x
50590	VK2HK-2-ROOM Wir
50594	VK2RFG-ROOM
50531	VK3 Chat 1
50592	VK3KAY-ROOM wire
31322	VOAD
25503	Volyns`ka obl
2329	Vorarlberg
314401	W1DMR
313976	W8SDR Local
31163	W9RCG Robert
3153	WA Statewide
31182	WA9RN Operations
2357	WALES
23570	Wales Chat
3111	Wash DC
31774	Weather Watching
5021	West Malaysia
31483	West Texas
3154	West Virginia
5056	Western Australi
31422	Western PA
3155	WI Statewide
31691	Wi/Ia/IL
50566	WICEN
31555	WI-DMR
2321	Wien
31551	WI--Fusion
2389	Wires-X 41365
28097	WiresX Cyprus
7143	wires-x fusion I
20401	Wires-X Hobbysco
22298	Wires-X ITALY-NO
22299	WIRESX-Room-ITA
31269	WMTG
3741	Woodbrook

310991	PVRA Connecticut
310992	CDRA Connecticut
310997	Parrot
311752	Central IL
312656	DARN (Kalamazoo)
313323	GMARS
313324	GMARS 2
313327	LARK
313976	W8SDR Local
314242	SVARC
314401	W1DMR
314706	Mem Metro
315409	K8DLT Beckley WV
316272	NASA
316273	JSC
316274	KSC
505999	XLX626B&NZXLXYSF
530999	XLX626A&YSF
647010	Room Saint-Benoit
647647	Reunion Island2
724942	XRF724 B
724943	XRF724 C
950600	Russia / Ivanovo
950601	Russia / Tarko-S
950602	Russia / Tarko-S
950603	Russia Moscow U
950604	Russia Moscow 3
950605	Russia / Ekateri
950606	Russia / Saint P
950607	Russia / Verkhna
950608	Russia / Kalinin
950609	Russia / Syktyvk
950610	Russia / Chelyab
950611	Russia / Moscow
950612	Russia / Omsk
950613	Russia / Ekateri
950614	Russia / Domoded
950615	Russia / Rostov-
950616	Russia / Rostov
950617	Russia / Cascasu
950618	Russia / Kirov
950619	Russia / Volgodo
950620	Russia Moscow 2
950621	Russia Moscow 1
950622	Russia / Krasnoy

91	World-wide
9101	Worldwide Mariti
1	WW (TG1)
13	WW Eng (TG13)
955	WWYL
31178	WXCTAC
31209	WY CO CERT
31208	WY CO RACES
3156	Wyoming
334	XE 1
3341	XE 2
3342	XE 4
3343	XE 6
31078	XLX013D PAPA
20206	XLX145/DStar
28096	XLX146
50501	XLX389A
50503	XLX389C
5050	XLX500 G
50510	XLX510 D
530999	XLX626A&YSF
505999	XLX626B&NZXLXYSF
53099	XLX750
9107	XRF007 B
268940	XRF040 A
268941	XRF040 B
31254	XRF054 C
2049881	XRF088 A
2049882	XRF088 B
31210	XRF210 D
2502	XRF250A Bridge
9502	XRF250C Bridge
31241	XRF336 C
2415	XRF699N/YSF699
724942	XRF724 B
724943	XRF724 C
50593	XRF740 C1
5059742	XRF740 C2
268942	XRF789 B
31281	XRF813 A
226112	YO EMCOMM 112
226123	YO QSO PARTY
918	YOTA
28091	Youth 1
28092	Youth 2

950623	Russia / Krasnoy
950624	Russia / Mozhays
950625	Russia / Krasnog
950626	Russia / Narofom
950627	Russia / Krasnod
950628	Russia / Sevasto
2049125	PI2NOS
2049881	XRF088 A
2049882	XRF088 B
2080332	France/DCS033C 1
2080673	France/XRF067C 1
5059742	XRF740 C2

21467	YSF Bizkaia
20811	YSF France
5059	YSF001 wires-x
50599	YSF001 XLX389D
20208	YSF202 Greece
20494	YSF444
21461	YSF-EA5 Spain
25507	Zakarpats`ka obl
25508	Zaporiz`ka obl
31429	Zednet
25506	Zhytomyrs`ka obl
2043	Zuid Nederland

REFLECTOR LIST**REFLECTOR NUMBER**

Name
Link to reflector
Unlink reflector
Berlin refBrande
Celle ref Heide
Berlin refBrande
Niedersachsen Mi
Switz refGerman
Switz refFrench
Switz refItalian
Bern refSolothur
Basel ref
Ukraine ref
Ukraine refXRF25
Ukraine refDCS00
Spain1 ref
Austria ref
Italy ref
Italy refZona1
Italy refZona2
Italy refZona3
Italy refZona4
Italy refZona5
Italy refZona6
Italy refZona7
Italy refZona8
Italy refZona9
Italy refZona0
Germany ref
Czech ref
Poland ref
Poland Tech ref
Bulgaria ref
France ref
France refMedit
France refAlpes2
France MidiPyren

France refEst4
France refOuest
France refAtlant
France refNord
France refCentre
France refDOM-TO
France refDeFran
France DCS033C
France XRF067C
Canada refEng
Canada refFranca
Spain2 ref
Spain ref Latin
UK ref
Chat 4401
Chat 4402
Chat 4403
Ireland ref
Scotland ref
Wales ref
Kernow ref
S.West ref
S.East ref
North West
Ireland ref Chat
Scotland refChat
North East ref
Wales refChat
W.Midlands
EMidlands ref
Wires X ref
AllStar ref
Germany Bridgeto
Nederland ref204
Nederland refNoo
Nederland refMid
Nederland ref
Nederland refOos
Florida ref
Georgia ref
Ncarolina ref
Texas ref
New York ref
Minnesota ref
Wisconsin ref

Indiana ref
Ohio ref
Puerto Rico ref
Mi5 refStateW1
Mi5 refStateW2
Mi5 Event
USA Nationwide
USAArea0ref
USAArea1ref
USAArea2ref
USAArea3ref
USAArea4ref
USAArea5ref
USAArea6ref
USAArea7ref
USAArea8ref
USAArea9ref
Sweden refSM0Are
Sweden refSM1Are
Sweden refSM2Are
Sweden refSM3Are
Sweden refSM4Are
Sweden refSM5Are
Sweden refSM6Are
Sweden refSM7Are
Sweden refAllSMA
Denmark ref
Denmark Nordjyll
Denmark Midtjyll
Denmark ref Sydd
Denmark refCopen
Denmark refSjael
Portugal1
Portugal2
Portugal D-STARb
Belgium ref
Belgium refVlaam
Belgium refFranc
Belgium refDeuts
XE 3 ref
XE 5 ref
XE 7 ref
XE 8 ref
Experimental
Australia ref

VK5 XRF500D ref
Germany Bridgeto
Norway ref
reflector 1
reflector 2
reflector 3
reflector 4

DMR REFLECTOR NOTES

You need a DMR hotspot to connect to a DMR reflector in most cases.

DMR reflectors are generally not accessible via DMRmarc repeaters.

All DMR hotspot reflectors use TalkGroup 9 on slot 1

You must manually initiate a connection to use a reflector

To link/connect to a reflector, tune your DMR radio to TG9 then issue a private call to your reflector number.

To unlink or disconnect, issue a private call to 5000

To query or get a status of what reflector you are currently connected to use reflector 5000

DMR reflectors start at 4000 & end at 5000