D-RATS Installation and Digital Check-In via Chat Cherokee County ARES

Task DRA1010 Version 1.6 30 MAY 2022



W1JKU Cherokee ARES

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Overview

D-RATS allows for real-time digital communication using a PC via D-STAR devices or through the Internet.

D-RATS supports:

- Instant messaging style chat
- Email capability to Winlink or Internet Email Addresses
- o Generation and Sending of predefined Forms like ICS-214
- Position Reporting with included Maps

This document will focus on installation and configuring D-RATS to perform Chat functionality and digital check-ins to the GA-ARES Ratflector over the Internet.

At the end of the training guide is a Drill Cherokee ARES we will practice on upcoming NET's/Training opportunities.

If you have recommendations for changes or updates, please contact <u>w1jku.us@gmail.com</u>

References:

1. <u>D-RATS Download Page</u>

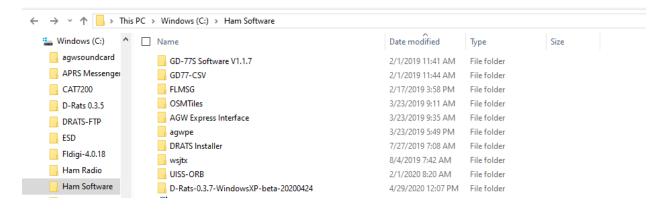
<u>http://dstarinfo.com/drats.aspx</u> - Suggest you keep checking this page on a monthly basis and utilize the Beta Download. As of May 3, 2020, Beta Version 0.3.9 is available for download.

- 2. D-RATS Installation Guide courtesy of GA-ARES: <u>http://dstarinfo.com/Data/Sites/1/media/getting-started-with-d-rats-(ga).pdf</u>
- 3. GAARES YouTube Training Material: <u>https://www.gaares.org/training.php</u>
- 4. GAARES D-RATS Training Material: <u>https://gaares.org/drats.php</u>

Installation and Configuration for GA ARES Ratflector

1. The new version of D-RATS does not come with an Installer. You must download the zip file, extract the folder from the zip file and place it on the drive and location of your choosing.

In the example below, I extracted the folder **D-Rats-0.3.7-WindowsXP-beta-20200424** to my personal folder of **c:\HAM Software**



2. You may then run d-rats.exe from the folder above, there will be no shortcut automatically added to your PC since there is no Windows installer for this beta version of D-RATs.

\leftarrow \rightarrow \checkmark \uparrow \square \rightarrow This	s PC > Windows (C:) > Ham Software	> D-Rats-0.3.7-WindowsXP-beta-2	20200424
늘 Windows (C:) 🔦	Name	Date modified	Туре ^
agwsoundcard	forms	4/29/2020 12:07 PM	File folder
APRS Messenger	images	4/29/2020 12:07 PM	File folder
CAT7200	lib	4/29/2020 12:07 PM	File folder
D-Rats 0.3.5	libexec	4/29/2020 12:07 PM	File folder
DRATS-FTP	locale	4/29/2020 12:07 PM	File folder
ESD	h share	4/29/2020 12:07 PM	File folder
	📊 tcl	4/29/2020 12:07 PM	File folder
Fldigi-4.0.18	📙 ui	4/29/2020 12:07 PM	File folder
Ham Radio	d-rats.exe	4/29/2020 12:07 PM	Application
Ham Software	d-rats_repeater.exe	4/29/2020 12:07 PM	Application
Intel	📧 w9xpopen.exe	4/29/2020 12:07 PM	Application
itshfbc	🚳 advapi32.dll	4/29/2020 12:06 PM	Application exten
IZ2BKT	🚳 comctl32.dll	4/29/2020 12:06 PM	Application exten
	🚳 comdlg32.dll	4/29/2020 12:06 PM	Application exten
	🗟 crypt32.dll	4/29/2020 12:07 PM	Application exten
Logs	🚳 freetype6.dll	4/29/2020 12:07 PM	Application exten
LOTW LOGFILES	🗟 gdi32.dll	4/29/2020 12:07 PM	Application exten
OneDriveTemp	🗟 iconv.dll	4/29/2020 12:07 PM	Application exten
-			- *

To create a shortcut on your pc, Right click on d-rats.exe and click Pin to Start

3. When you start this new version of D-Rats for the first time, a new registry file will be created on your PC to store your settings. Follow the instructions on the screen using the <u>Reference section #2</u> above in this document for details on how to configure D-RATS. The instructions are very clear and provide step by step instructions. In this document, I will only cover the steps the additional steps that need to be performed not covered in the Referenced document:

Quick Start, Under File and Preferences:

🏶 Config							>	×
 Preferences Paths Maps GPS config Export GPS messages Appearance Chat Sounds Messages Radio Transfers Network 	Callsign Name Sign-on Message Units Show time in UTC Ping reply Language	✓ Enabled Imperial	Going offl kee County Messages Messages ng Files	ine (D-RATS)				
TCP Gateway TCP Forwarding Outgoing Email Email Accounts Email Access								
						<u>S</u> ave	<u>C</u> ancel	

a. Set your Callsign and Name

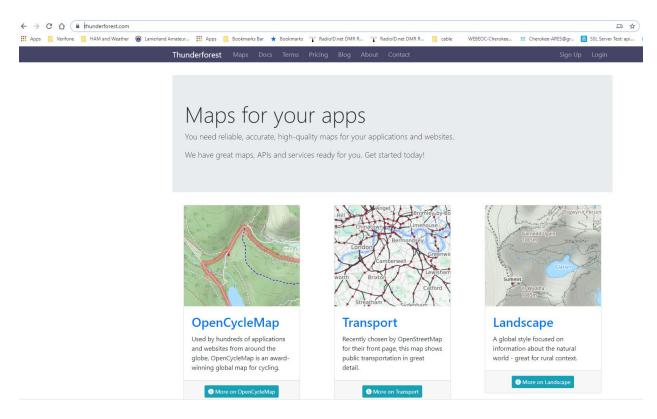
b. Under **GPS Config** Set your **Latitude**, **Longitude**, and **Altitude** so your will display properly on maps and position reports

🔞 Config									×
Preferences	Latitude	34.1443	376						
Paths	Longitude	-84.526	587						
Maps	Altitude	900							-
GPS config	Use External GPS	🗌 Ena	bled						
Export GPS messages	External GPS				\sim	4800			\sim
Appearance	GPS-A Symbol	Table: /	/		Sym	ool: >			
Chat	Default GPS comment	BN *20)						DPRS
Sounds									
Messages									
🗆 Radio									
Transfers									
Network									
TCP Gateway									
TCP Forwarding									
Outgoing Email									
Email Accounts									
Email Access									
							<u>S</u> ave	<u>C</u> a	ncel

4. See <u>MAPS and Configuration with Thunderforest</u> below for a minor change on configuring and enabling D-RATS maps.

MAPS and Configuration with Thunderforest

 Maps. The Map feature has been improved and is more reliable than the prior version of maps that stopped working. But you must first register for an API Key with <u>https://thunderforest.com</u> which is free. Click the Sign-up button and follow the directions:



2. After you have your free API Key, you can continue configuring D-RATS DO NOT attempt to manipulate the URL's in D-RATS with what you see in Thunderforest, you only need to apply your correct API Key, to the configuration, which will be depicted in Step 3 below:

\leftrightarrow \rightarrow C \triangle (a) manage.thunderforest.com/dashbo	bard								
👯 Apps 📙 Verifone 📙 HAM and Weather 🔞 Lanierland A	Amateur 🏭 Apps 📃 Bookm	arks Bar 🔺 Bookmarks	°i [®] RadioID.net DMR R	° i ⁰ Radio	ID.net DMR R	cable	WEBEOC-Cherokee	☑ Cherokee-ARES@g	r 🔞 SSL Server Test:
	Thunderforest Conso	le						Dashboard	Help Logout
	Signed in successfully.								×
	Account Details		Edit Ad	count	Subscrip	tion			
		Rob Bruderer w1jku.us@gmail.com Amateur Radio					owngrade or cancel Hobby Project (Fre	your subscription at a	ny time.
	Invoice Address Country					l to supply you ade to a paid		n invoice address, bef	ore you
	EU VAT ID								
	Payment Informatic	n	С	hange					
	Card in use	none							
	API Keys								
	API Key								
	63b921035af34df3b49350								

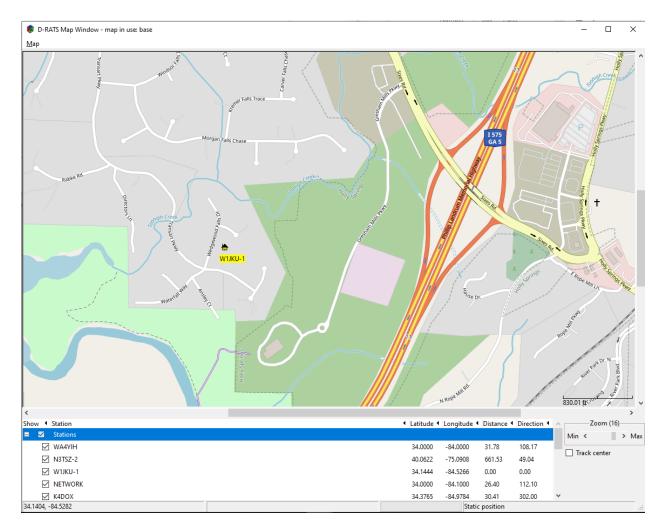
- *3.* In D-RATS under File, Preferences, Maps, you will update only the 3 locations depicted below that start with *"Key string to append to..."*.
 - *a.* The value in all 3 will be the same consisting of **?apikey=** *and your unique apikey you received in step 2 from Thunderforest.*
 - b. Notice the last few digits we cross out as that is my personal Thunderforest apikey, you must use your own value.
 - c. After applying the configurations, you may need to reboot your PC before the maps function.
 - *d.* Change https to http in the URL. (as thunderforest is no longer using SSL certificates)

Option: If Maps is properly configured, you can change "Map to use" in D-RATS using the dropdown list to utilize the various maps supported.

Preferences	Map to use	outdoors	~
Paths	BaseMap server url	http://tile.openstreetmap.de/	Revert
Maps	OpenCycleMap server url	http://tile.thunderforest.com/cycle/	Revert
GPS config	Key string to append to CycleMap url	?apikey=	Revert
Export GPS messages	Landscape server url	http://tile.thunderforest.com/landscape/	Revert
Appearance	Key string to append to landscape url	?apikey=	Revert
Chat	Outdoors server url	http://tile.thunderforest.com/outdoors/	Revert
Sounds	Key string to append to outdoors url	?apikey=	Revert
Messages Radio	Freshen map after	720	+ hours
Transfers	Report position timestamps on map	Enabled	
Network			
- Herron			
TCP Gateway			
TCP Gateway			
TCP Gateway TCP Forwarding			
TCP Gateway TCP Forwarding Outgoing Email			

Using D-RATS Maps.

- To use maps in D-RATS, simply click on View, then Maps from the main D-RATS application.
- At that time the map will appear with the callsigns and locations D-RATS has received.
- You may then zoom in our out, or if necessary, return to the Maps Configuration and change the map to be displayed.



GA ARES Ratflector Configuration

- 1. After you install and configure D-RATS with the base instructions, please configure and enable the GA ARES Ratflector
 - a. Click File
 - b. Click Preferences
 - c. Click Radio
 - d. Click Add
 - e. When the Add a port window appears, enter the information you see below for Name, Type, Host Address, and Port. Leave Password Blank, and then click **Add**

Name	GA	-ARES		
Туре	Ne	Network		
A net	work	link to a ratflector instance Parameters		
Host Add	iress	gaares.ratflector.com		
Port		9000		
Passwo	rd			

Northwest GA District Ratflector Configuration

- 1. After you install and configure D-RATS with the base instructions, please configure and enable the GA ARES Ratflector
 - a. Click File
 - b. Click Preferences
 - c. Click Radio
 - d. Click Add
 - e. When the Add a port window appears, enter the information you see below for Name, Type, Host Address, and Port. Leave Password Blank, and then click **Add**

Name	NV	NW GA District				
Туре	Ne	Network				
A net	work	link to a ratflector instance Parameters				
Host Address		nwgaares.ddnsfree.com				
Port		9000	+			
Passwo	rd					

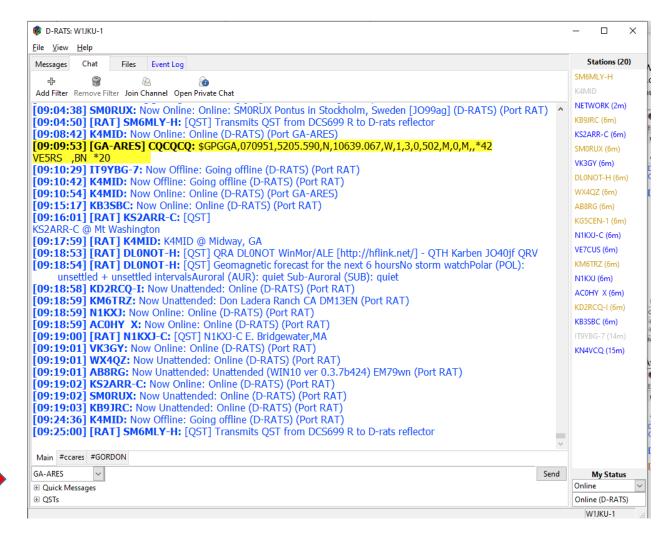
- 🍋 Config \times Preferences Enabled

 Port ▲ Settings ▲ Sniff ▲ Raw Text ▲ Name . \Box GA-ARES \leq net:gaares.ratflector.com:9000 Paths GAAUXCOM \sim net:GAAUXCOMM.RATFLECTOR.COM:9000 Maps Gwinnett ARES net:gwinnettares.ratflector.com:9000 GPS config /dev/ttyUSB0 9600 IC2820 ttyUSB0 Export GPS messages **K3PDR** net:k3pdr.dstargateway.org:9000 Appearance net:10.0.0.153:9000 KX4MAT-1 Chat net:localhost:9000 Local RATflector Sounds NWGA District \sim net:nwgaares.ratflector.com:9000 Messages net:ref.d-rats.com:9000 RAT 🗆 Radio net:sewx.ratflector.com:9000 SE Weather Net \sim Transfers Network TCP Gateway TCP Forwarding Outgoing Email Email Accounts <u>A</u>dd <u>E</u>dit <u>D</u>elete Email Access Save Cancel
- 2. Your Configuration under Radio should look like this for GA-ARES and NW GA District:

- 3. Ensure you have the check box **Enabled** for the GA-ARES and NW GA District ratflector and any other ratflector you wish to utilize and click **Save** at the bottom of the screen.
- 4. You are now configured and should be able to utilize the GA-ARES and NW GA District ratflector.

Digital Check-In via Chat

- 1. Depending on the ratflector, your wishing to connect to, you may wish to enable or disable various ratflectors enabled in the Configuration-Radio settings.
- 2. To see which stations are currently connected to D-RATS, on the left side of your screen under **Stations**, right click your mouse, and click **Ping all Stations** to see which stations are currently connected.
- 3. To requested updated station locations that will appear on the Map, , on the left side of your screen under **Stations**, right click your mouse, and click **Request all positions**.
- 4. Select **GA-ARES** or **NW GA District** in the drop-down list on your screen to communicate on the respective Ratflector.



5. Your cursor should be blinking to the right of the **GA-ARES** / **NW GA District** drop down list, where you are able to enter your message and then click **Send**.

	Stations (20
Messages Chat Files Event Log	KS2ARR-C
+ 🗑 💫 🕜	DLONOT-H
Add Filter Remove Filter Join Channel Open Private Chat	
[09:04:38] SMORUX: Now Online: Online: SMORUX Pontus in Stockholm, Sweden [JO99ag] (D-RATS) (Port RAT) \land	
[09:04:50] [RAT] SM6MLY-H: [QST] Transmits QST from DCS699 R to D-rats reflector	KG5CEN-1
[09:08:42] K4MID: Now Online: Online (D-RATS) (Port GA-ARES)	VK3GY
[09:09:53] [GA-ARES] CQCQCQ: \$GPGGA,070951,5205.590,N,10639.067,W,1,3,0,502,M,0,M,,*42	KM6TRZ
VESRS ,BN *20	N1KXJ
[09:10:29] IT9YBG-7: Now Offline: Going offline (D-RATS) (Port RAT)	KB9JRC
[09:10:42] K4MID: Now Offline: Going offline (D-RATS) (Port RAT)	ACOHY X
[09:10:54] K4MID: Now Online: Online (D-RATS) (Port GA-ARES) [09:15:17] KB3SBC: Now Online: Online (D-RATS) (Port RAT)	
[09:16:01] [RAT] KS2ARR-C: [QST]	N1KXJ-C
KS2ARR-C @ Mt Washington	KB3SBC
[09:17:59] [RAT] K4MID: K4MID @ Midway, GA	SM6MLY-H (2m
[09:18:53] [RAT] DLONOT-H: [QST] QRA DLONOT WinMor/ALE [http://hflink.net/] - QTH Karben JO40if QRV	K4MID (3m)
[09:18:54] [RAT] DLONOT-H: [OST] Geomagnetic forecast for the next 6 hoursNo storm watchPolar (POL):	NETWORK (4m)
unsettled + unsettled intervalsAuroral (AUR); quiet Sub-Auroral (SUB); quiet	WX4QZ (8m)
[09:18:58] KD2RCQ-I: Now Unattended: Online (D-RATS) (Port RAT)	AB8RG (8m)
09:18:59 KM6TRŽ: Now Unattended: Don Ladera Ranch CA DM13EN (Port RAT)	
[09:18:59] N1KXJ: Now Online: Online (D-RATS) (Port RAT)	VE7CUS (8m)
[09:18:59] ACOHY X: Now Online: Online (D-RATS) (Port RAT)	KD2RCQ-I (8m)
[09:19:00] [RAT] N1KXJ-C: [QST] N1KXJ-C E. Bridgewater,MA	IT9YBG-7 (17m)
[09:19:01] VK3GY: Now Online: Online (D-RATS) (Port RAT)	KN4VCQ (17m)
[09:19:01] WX4QZ: Now Unattended: Online (D-RATS) (Port RAT)	
[09:19:01] AB8RG: Now Unattended: Unattended (WIN10 ver 0.3.7b424) EM79wn (Port RAT)	
[09:19:02] KS2ARR-C: Now Online: Online (D-RATS) (Port RAT)	
[09:19:02] SMORUX: Now Unattended: Online (D-RATS) (Port RAT)	
[09:19:03] KB9JRC: Now Unattended: Online (D-RATS) (Port RAT) [09:24:36] K4MID: Now Offline: Going offline (D-RATS) (Port RAT)	
[09:25:00] [RAT] SM6MLY-H: [OST] Transmits QST from DCS699 R to D-rats reflector	
	51 C
Main #ccares #GORDON	
	N. 6. 1
	My Status Online
Quick Messages	
	Online (D-RATS

** When checking in. first type the Net Control Operators Callsign then for example 'Please Check me in to GA ARES D-RATS NET' plus your Name and Location then click **Send.** There is no need to type your call-sign, D-RATS will automatically add your call sign to the message. 6. After you click Send you will see your message posted in the main screen:

File View Help Messages Chat Files Event Log		Stations (21)
		VE7CUS
		W3CJW (1m)
Add Filter Remove Filter Join Channel Open Private Chat		
09:09:53] [GA-ARES] CQCQCQ: \$GPGGA,070951,5205.590,N,10639.067,W,1,3,0,502,M,0,M,,*42	^	NETWORK (2m)
/E5RS ,BN *20		SM6MLY-H (2m)
09:10:29] IT9YBG-7: Now Offline: Going offline (D-RATS) (Port RAT)		AB8RG (2m)
[09:10:42] K4MID: Now Offline: Going offline (D-RATS) (Port RAT)		WX4QZ (2m)
[09:10:54] K4MID: Now Online: Online (D-RATS) (Port GA-ARES)		KD2RCQ-I (2m)
09:15:17] KB3SBC: Now Online: Online (D-RATS) (Port RAT)		KS2ARR-C (2m)
[09:16:01] [RAT] KS2ARR-C: [QST] (S2ARR-C @ Mt Washington		DL0NOT-H (2m)
[09:17:59] [RAT] K4MID: K4MID @ Midway, GA		SMORUX (2m)
09:18:53] [RAT] DLONOT-H: [QST] QRA DLONOT WinMor/ALE [http://hflink.net/] - QTH Karben JO40jf QRV		
09:18:54] [RAT] DLONOT-H: [QST] Geomagnetic forecast for the next 6 hoursNo storm watchPolar (POL):		KG5CEN-1 (2m)
unsettled + unsettled intervalsAuroral (AUR): quiet Sub-Auroral (SUB): quiet		VK3GY (2m)
09:18:58 KD2RCO-I: Now Unattended: Online (D-RATS) (Port RAT)		KM6TRZ (2m)
09:18:59 KM6TRŽ: Now Unattended: Don Ladera Ranch CA DM13EN (Port RAT)		N1KXJ (2m)
09:18:59 NIKXJ: Now Online: Online (D-RATS) (Port RAT)		KB9JRC (2m)
09:18:59] ACOHY X: Now Online: Online (D-RATS) (Port RAT)		AC0HY X (2m)
[09:19:00] [RAT] N1KXJ-C: [QST] N1KXJ-C E. Bridgewater,MA		N1KXJ-C (2m)
09:19:01 VK3GY: Now Online: Online (D-RATS) (Port RAT)		
[09:19:01] WX4QZ: Now Unattended: Online (D-RATS) (Port RAT)		KB3SBC (2m)
[09:19:01] AB8RG: Now Unattended: Unattended (WIN10 ver 0.3.7b424) EM79wn (Port RAT)		K4MID (5m)
[09:19:02] KS2ARR-C: Now Online: Online (D-RATS) (Port RAT)		IT9YBG-7 (20m)
[09:19:02] SMORUX: Now Unattended: Online (D-RATS) (Port RAT)		KN4VCQ (20m)
[09:19:03] KB9JRC: Now Unattended: Online (D-RATS) (Port RAT)		
[09:24:36] K4MID: Now Offline: Going offline (D-RATS) (Port RAT)		
[09:25:00] [RAT] SM6MLY-H: [QST] Transmits QST from DCS699 R to D-rats reflector [09:29:09] W3CJW: Now Online: Online (D-RATS) (Port RAT)		
[09:30:04] [RAT] VE7CUS: [QST] Darrel Smith Ladner, BC using d-rats 3.3.7		
[09:30:28] [GA-ARES] W1JKU-1: Rob Checking in to the GA ARES NET from Cherokee County		
estorized for three three cheaning in or the on Ares her non-cherokee county	~	
Main #ccares #GORDON		
	Canal 1	Marchart
	Send	My Status Online
		Online Online (D-RATS)

- 7. Wait for the Cherokee Digital Net Control operator to acknowledge you. You may have to wait a few minutes as the operator collects multiple call signs and then acknowledges multiple in the same message.
- 8. As additional call signs are acknowledged, NET Control will respond with the acknowledged call signs including previous, plus any new call signs. Just look for your call-sign. If you are not acknowledged and accidently skipped, try again.

- 9. When Net Control Acknowledge you, you may then send your traffic:
- 10. This process continues on and on... This is a good method to communicate and supplement FM, SSB, WINLINK, APRS Communications.
- 11. More advance functions will be covered in future training.

D-RATS Channels

D-RATS Channels are not secure or encrypted. No sensitive information should be passed using D-RATS. The D-RATS Channel simply allows personnel, teams, and organizations to utilize D-RATS for passing traffic via CHAT without everyone seeing the message on the Main D-RATS Chat Window, which can quickly become cluttered with all of the traffic passed.

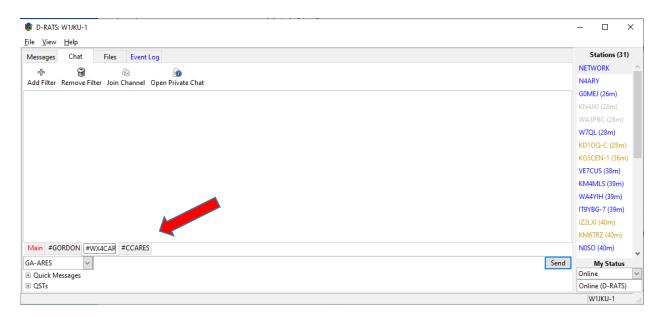
Click the **Join Channel** button from the Chat Window. You will then be instructed to enter the Channel Name.

🕏 D-RATS: W1JKU-1	- 🗆	×
file <u>V</u> iew <u>H</u> elp		
Messages Chat Files Event	Stations (32	2)
🕂 📾 🙉 🧮 🍙	W1JKU-2 (2m)	
Add Filter Remove Filter Join Channel Open Private Chat	NETWORK (3m))
Messages to Callsigns will be delivered when their Station is seen on D-Rats again. Do not attempt to forward Winlink messages at this 🗖	N4ARY (7m)	
time.	G0MEJ (34m)	
[15:38:23] WA3PBC: Now Online: Online (D-RATS) (Port RAT)	KN4JXI (36m)	
[15:39:52] [RAT] KD10Q-C: [QST] Jim in Attleboro, MA	WA3PBC (36m)	
15:40:03] W7QL: Now Online: Online (D-RATS) (Port RAT)	W7QL (37m)	
15:40:04] KN4JXI: Now Offline: Going offline (D-RATS) (Port GA-ARES) 15:40:39] WA3PBC: Now Offline: Going offline (D-RATS) (Port RAT)	KD10Q-C (37m)	ı)
15:40:59] WASPEC: Now Online. Going Online (D-KATS) (Polt RAT) 15:42:47] [RAT] GOMEJ: [QST]	KG5CEN-1 (45m	n)
2020-05-08 16:07:56] N4ARY: Now Online: Online (D-RATS) (Port GA-ARES)	VE7CUS (47m)	1
16:10:17] N4ARY: Now Offline: Going offline (D-RATS) (Port GA-ARES)	KM4MLS (48m)	
16:10:50] [GA-ARES] WX4GMA: WX4GMA is taking reports on utility outages including cell phone and internet as well as	WA4YIH (48m)	
symptoms of illness in your immediate family.	IT9YBG-7 (48m)	
16:14:40] W1JKU-2: Now Online: Online (D-RATS) (Port GA-ARES)	IZ2LXI (48m)	1
Main #GORDON #WX4CAR @W1JKU-2		
Main #GORDON #WX4CAR @WUIX0-2	KM6TRZ (48m)	
GA-ARES Send	My Status	4
3 Quick Messages	Online	
⊕ QSTs	Online (D-RATS)
	W1JKU-1	

After clicking the **Join Channel**, you will then be instructed to enter the Channel Name. In the example below, I will Join Channel ccares. You may setup unique and custom channels if you desire, you just need to ensure whomever you want to talk to knows to join that channel. The Channel name is **CASE SENSITIVE**. We will recommend using all-lowercase channel names we are establishing to avoid confusion.

Messages Cha	t	Files	Event Log		Stations (3	1)
÷	ີ		19. An Ann Ann Ann Ann Ann Ann Ann Ann Ann		NETWORK	
	er Remove Filter Join Channel Open Private Chat		N4ARY			
					G0MEJ (25m)	
					KN4JXI (27m)	
		ſ			WA3PBC (27m)	
			😻 Join Channel X		W7QL (28m)	
					KD10Q-C (28m	
					KG5CEN-1 (36r	
			Enter channel name:		VE7CUS (38m)	
					KM4MLS (39m	
			CCARES		WA4YIH (39m)	
			Enter channel name:		IT9YBG-7 (39m)	ļ
			<u>Cancel</u> <u>OK</u>		IZ2LXI (39m)	
		L	♥ Join Channel × Enter channel name: W7QL (28m) Enter channel name: KG5CEN-1 (36m) CCCARES KM4MLS (39m) QK I19YBG-7 (39m) I2ZLXI (39m) I2ZLXI (39m) KM6TRZ (39m) KM6TRZ (39m)			
Main #GORDON	#W	X4CAR			N0SO (39m)	
GA-ARES	\sim			Send	My Statu	
Quick Message	5				Online	
QSTs					Online (D-RATS	5

When the Channel name is created in D-RATS, it will appear with # + Channel name on your screen. Simply click on the channel at the bottom of your screen to either read chats posted to that channel or to post a message to that channel.



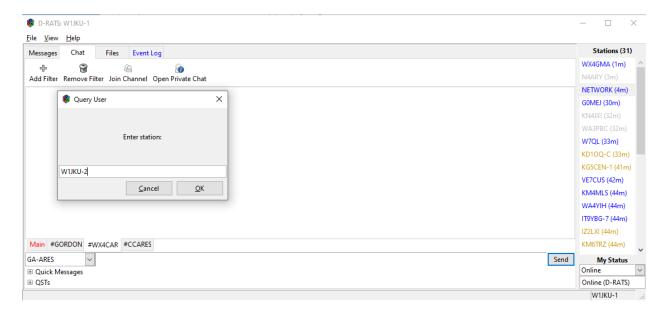
Common Channels:

- 1. CCARES The Cherokee County ARES Channel. This channel is used by the Cherokee County ARES team. This is case sensitive, all Uppercase when setting up the channel.
- 2. WX4CAR The WX4CAR Channel. WX4CAR plans on using our CARS channel during Field-Day, and weekly nets as another method of communicating real-time with our members. This is case sensitive, all Uppercase when setting up the channel.
- 3. GORDON The Gordon County ARES Channel. This channel has been setup by Gordon County ARES. This is case sensitive, all Uppercase when setting up the channel.

Private Chat

D-RATS **Private Chat** is not secure or encrypted. No sensitive information should be passed using D-RATS. The D-RATS Private Chat simply allows two stations to establish communication without everyone seeing the messages on the Main Chat Window., which can quickly become cluttered with all the traffic passed.

When establishing a Private Chat with another station already connected to D-RATS, you will simply press the **Open Private Chat** button and enter the **station** you would like to communicate with



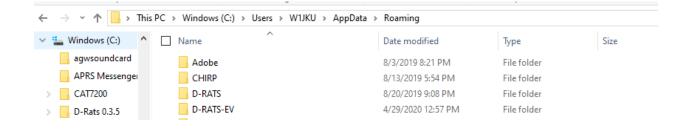
The Private Chat will be created at the bottom of your Chat window starting with an @ sign. Simply Highlight that filter to see and type messages to the station you wish to communicate with. The cool thing is that the receiving station will automatically be added to the Private Chat upon receiving the message you send. All they must do is click on the Private Chat filter at the bottom of their screen to view and send message to you.



D-RATS Exception Handling- Reconfigure D-RATS

Should your version of D-RATS not function correctly, you may have a corrupted D-RATS configuration. Since there is no installation program, you may need to manually clear the configuration in order to start fresh. (If maps will not function after validating the steps were followed correctly, you may need to execute this step.)

- 1. Under C:\Users\ (the UserId you are logged in as)\APPData\Roaming, look for a folder called D-RATS-EV.
- 2. Delete that folder and relaunch D-RATS and you should be walked through the installation as a new configuration starting with <u>Installation and Configuration for GA-ARES Ratflector</u> Step 1 above.



Cherokee ARES Drill DRA1010

Task: DRA1010: Digital Check-In via D-RATS instead of UHAM41

Condition: This Drill will be used to test the ARES team capability of using D-RATS to supplement normal FM Communications. During this drill, all stations capable of performing this task will use D-RATS to Check in to the GA ARES NET instead of FM. After Check-In, NET Control will then Acknowledge you via D-RATS. NET Control will announce on FM all stations that have checked in via D-RATS and provide additional instructions.

On Monday Nights at 8pm eastern, look for an opportunity to check into one of the weekly D-RATS Nets conducted on the GA-ARES Ratflector...

Standard: Within 5 minutes, Station will perform a Digital Check-in using the GA-ARES ratflector. Station will wait for acknowledgement from NET Control and follow instructions given.

Importance: This skill will allow you to provide quick emergency updates to the ARES team as a supplement to other communication methods available including FM, HF, Winlink, APRS, FLDIGI, SMS, Zello, Cell, etc.... No one communication method is the best in all circumstances. The ability to remain flexible, move, and communicate is an important task to be able to perform under adverse conditions.