D-RATS Training

D-RATS Lesson schedule

- 1. Introduction (need for dedicated email address and a WINLINK address)
- 2. SFARES Toolkit
 - a. Situation (EOC, SAR, DOH, Skywarn, Public Service)
 - b. Systems (Internet, VHF/UHF repeaters, HF, Winlink 2000 System)
 - c. Software
- 3. D-RATS Installation and Configuration
- 4. CHAT
- 5. FILES
- 6. MESSAGES
- 7. MAP including Map Downloader
- 8. RF Segment with D-STAR radios
- 9. Trouble shooting
- 10. Resources

- 3. D-RATS installation and configuration (1 hour)
- D-RATS software free (<u>http://www.d-rats.com</u>) in Windows, Linux or MacOS
- D-RATS Operating Guide: <u>D-RATS Operating Guide 0.3.3.pdf</u>
- Operating Guide Update: <u>D-RATS_Operating_Guide_Addendum_02232012.pdf</u>
- <u>Quick Set Up.pdf</u> for basic settings to get started using D-RATS
- Latest D-RATS release: **Daily Build 02232012** for Linux, MAC and Windows at:
- http://dev.d-rats.com/drats_daily/daily-02232012/
- Configurations:
 - D-RATS configuration Part I Rev 1.doc
 - D-RATS configuration Part II Rev 1.doc

Note: You don't need to be a ham to use D-RATS on the Internet. However, you do need to be a ham to use D-RATS if you use D-RATS and the Radio Frequency Segment (connect D-RATS to a radio).

4. CHAT Window [Tab]

Main Area

Where real time text is exchanged with all stations

Received and transmitted text displayed in different colors and includes the port name and time stamp. (Colors can be adjusted in Preferences > Appearance)

Text can be selected, copied and pasted into other applications. Likewise, text can be pasted into the [typing box] from other applications.

🛞 D-RATS: NAVIP	
Eile View Help	
Messages Chat Files Event Log	Stations (12)
	AB9FT-W
Add Filter Remove Filter Join Channel Open Private Chat	F4DKF
D-RATS vdaily-02232012	EA1AXY
Copyright 2012 Dan Smith (KK7DS)	DK3CW
	WA0NUU
[2013-12-23 08:09:49] [RAT] KUSSJY-K: [QST] AB9FT/KUSSJY (Kepeater) Kattlectors - Sneboygan, WI	DL0NOT
	DB0ZAV
KC95JY-R: 9001 (internet only)	W5MPZ-R
AB9FT-1: 9000 (internet only, WX/Propagation QSTs)	KL1IF
AB9FT: 9002 (Internet to VHF gateway using ICOM 2200H with WX QSTs)	K2TJW
[06:10:07] KC9507-K: Now Unattended: Star Riders Analetts D-RATS (Benthal Station (Port RAT) [08:10:08] KK729W: Now Unattended: Online (D-RATS) (Port RAT)	KK7PW
[08:10:09] W5MPZ-R: Now Online: W5MPZ Rafflector system monitor (Port W5PMZ)	KC9SJY-R
[08:10:09] KL1IF: Now Online: Online (D-RATS) (Port RAT)	
[08:10:09] K2TJW: Now Unattended: Online (D-RATS) (Port RAT)	
[06:10:10] DUONOT: NOW UNderINGED: EITLOMINI-METALE-Station-Kalden] (FOT KAT) [08:10:10] DB07AV: Now Unattended: [DRA DB07AV Winder/DarTor Windlink DBS OTH Karben 1040if ORV] (Port RAT)	
[08:10:11] WAONUU: Now Online: (D-RATS) (Port RAT)	
[08:10:12] F4DKF: Now Online: Online (D-RATS) (Port RAT)	
[08:10:12] EA1AXY: Now Online: Luis IN61FW (Port RAT)	
[08:10:12] DK3CW: Now Unattended: Onair [EmComm-Notrunk-Hrankfurt] on REF15C (Port RAT)	
[U0.10.14] Abar I-W. Now Onattended. Josh at work - Sheboygan, WI (Port KAT)	
Man	
RAT •	My Status
Quick Messages	Online
	Unline (D-RATS)
Station AB9F I - W Is now Unattended: Josh at work - Sheboygan, WI	N4VIP

Stations Pane (Area right side of the window)

Displays call signs heard and the time since last heard in parentheses

Hover mouse over a call sign to display their status and status message

Blue means Online, Orange means Unattended

Right click mouse on a call sign to display a context sensitive menu of additional operations.

Ping: Check the status of a station

Test Connectivity: Test quality of path to an RF station (important for RF Segment)

Request Position: Get the location of a station to be displayed on the map.

Get version: Request version of D-RATS

Request mail check: Check if a station is holding mail for you

Status Pane

What other users see when they hover their mouse over your call sign

Use the drop-down arrow to set your status as "Online" or "Unattended"

Type short message to be displayed with your status on the second line This is the text that appears in parentheses (as above)

CHAT Window [Tab](continued)

🛞 D-RATS: N4VIP	
Eile View Help	
Messages Chat Files Event Log	Stations (12)
	KL1IF
Add Filter Remove Filter Join Channel Open Private Chat	AB9FT-W
D-RATS vdaily-02232012	WA0NUU
Copyright 2012 Dan Smith (KK7DS)	KC9SJY-R
	EA1AXY
[2013-12-23 08:27:13] W3MPZ-R: NOW ONLINE: W3MPZ KATHERTOR System Monitor (Port W3PMZ) [09:27:15] DV3CW: Now (Lastandad: Onair FernancementerFunk-Frankfunk-Frankfunk)	DL0NOT
108:27:15] DROCK Yow Gradenbed. Gran Echeromin Hod and Hankard on Kei 15C (FOR KAT)	F4DKF
08:27:15] K2TJW: Now Unattended: Online (D-RATS) (Port RAT)	KK7PW
[08:27:16] KK7PW: Now Online: Online (D-RATS) (Port RAT)	W5MPZ-R
[08:27:17] DLONO1: Now Unattended: [EmComm-HFLink-ALE-Station-Karben] (Port RAT)	DK3CW
[08:27:17] F4DKT: NOW ONLINE: ONLINE (DATATS) (POTERAT) [08:27:18] KCOSTV-DE Now Unattended: Star Didars Amateurs D-PATS Station (Dort PAT)	DB0ZAV
108:27:18 FATAXY: Now Online: Luis IN61FW (Port RAT)	K2TJW
08:27:19] WAONUU: Now Online: Online (D-RATS) (Port RAT)	
[08:27:20] KL1IF: Now Online: Online (D-RATS) (Port RAT)	
[08:27:20] AB9FT-W: Now Unattended: Josh at work - Sheboygan, WI (Port RAT)	
Main	
RAT ¥	My Status
Quick Messages	Online 🔹
III QSTs	Online (D-RATS)
Station AB9FT-W is now Unattended: Josh at work - Sheboygan, WI	N4VIP

Port Selection

Use the drop down arrow to select the port where text and QSTs are sent All enabled ports are monitored and can receive messages and file transfers, but text and QSTs only go out the selected port

Quick Messages

Allows storage of commonly used phrases when communicating via text Point and double-click on a message to send it

Use buttons at right to add or remove Quick Messages

QSTs

Various types of bulletins can be sent periodically,

May contain: a string of text, the contents of a text file, your current position, the position of a station or static location in the map window, the current temperature at an airport, or an RSS or CAP feed

Use the add button to create a new QST

CHAT Window

[Tab](continued)

Eile View Help	
Messages Chat Files Event Log	Stations (11)
4 9 0 G	AB9FT-W
Add Filter Remove Filter Join Channel Open Private Chat	KL1IF
D-RATS vdaily-02232012	W5MPZ-R
Copyright 2012 Dan Smith (KK7DS)	KC9SJY-R
	DK3CW
[2013-12-23 08:49:45] K21JW: Now Unattended: Online (D-RATS) (Port RAT)	WA0NUU
108-49-471 DLONDT: Now United tendent (For CMA)	DLONOT
[08:49:47] F4DKF: Now Online: Online (D-RATS) (Port RAT)	F4DKF
[08:49:47] DB0ZAV: Now Unattended: [QRA DB0ZAV WinMor/PacTor WinLink RMS - QTH Karben JO40jf QRV] (Port RAT)	DB0ZAV
[08:49:48] WAONUU: Now Online: Online (D-RATS) (Port RAT)	K2TJW
[08:49:48] KUSSJY-K: Now Unattended: Star Riders Amateurs D-RATIS Station (Port RAT) [08:40:40] [DATI KCOSTV-D. [OST] ABDET//COSTV (Departure) Patheters - Shebayara Mi	EA1AXY
File>Preferences_Radio>Add: 162.230.190.944, nort #	
KC95JY-R: 9001 (internet only) AB9FT-1: 9000 (internet only, WX/Propagation QSTs) AB9FT: 9002 (Internet to VHF gateway using ICOM 2200H with WX QSTs) [08:49:49] DK3CW: Now Unattended: Onair [EmComm-NotFunk-Frankfurt] on REF15C (Port RAT) [08:49:50] KL1IF: Now Online: Online (D-RATS) (Port RAT) [08:49:50] W5MPZ-R: Now Online: W5MPZ Ratflector system monitor (Port W5PMZ) [08:49:51] AB9FT-W: Now Unattended: Josh at work - Sheboygan, WI (Port RAT) Main	
PAT •	Mu Status
E Ouick Messages	Online 💌
I QSTs	Online (D-RATS)
y Station AB9FT-W is now Unattended: Josh at work - Sheboygan, WI	N4VIP

Filters (3 types)

Incoming chat text from all active ports goes to Main area in the chat window. For large amounts of activity, it may be desirable to sort incoming Chat text using Filters Filter strings used to parse incoming text and divert it into other areas in the chat window Filters (when established) appear as Tabs at the bottom of the Chat window Filter tabs may be dragged and dropped to change their order

Add Filter

Click "Add Filter" and enter a string of text. Any incoming Chat messages containing text matching the filter sent to the filter tab and not the main area. In the above example, any Chat message containing [QST] is sent to the filter Tab.

Channels

A variation on the filter concept allows you to create "channels" within the Chat window. Multiple stations with a similar task may be grouped together or communications with a specific location can be separated from the Main traffic area. Example: Any station may communicate directly with the EOC or the Hospital during a Search & Rescue operation.

Private Chat

The third version allows you create a "private" channel with another station

5. FILES Window [Tab]

Transfer files from one station to another using <u>D-STAR radio</u> or the <u>Internet</u>

- Left side of the screen shows files in your local sharing folder (defined in Preferences>Path)
- Right side of the screen displays files in the remote stations sharing folder



FILES Window [Tab](continued)

To transfer from an online station:

- Use the drop down arrows right side of screen to select a station and the port
- Click on connect button
- Remote stations file list will soon appear on the right side of the screen

[Screen shows that I selected Port W5MPZ, Station W5MPZ-R, connect and files available on W5MPZ-R]

Ø D-RATS: N4VIP	Angent 1 Ang	
<u>File View H</u> elp		_
Messages Chat Files Event Log		Stations (3)
Refresh Delete Upload Local	Connect Disconnect Download Delete	W5MPZ-R KB5HPT (2m)
Filename	Station: W5MPZ-R	KE5ILI (2m)
3 Forms 1.txt	Filename A Size Date	
4 Maps 1.txt	D-RATS Albuquerque map sites.csv 349 B 15:24:06 2012-11-12	
AGWPE-DRATS.txt	D-RATS configuration Part I Rev 1.doc 373.0 KB 21:11:41 2013-08-09	
D-RATS Albuquerque map sites.csv	D-RATS configuration Part II Rev 1.doc 154.0 KB 21:16:51 2013-08-09	
D-RATS configuration Part I Rev 1.doc	D-RATS Creating Static Overlays.pdf 20.0 KB 15:35:37 2013-11-20	
D-RATS configuration Part II Rev 1.doc	D-RATS Part IV for D-STAR setup V2.doc 86.0 KB 13:14:08 2013-12-17	
D-RATS Creating Static Overlays.pdf	D-RATS_Basic_E-mail_Procedures.pdf 81.0 KB 15:38:19 2013-11-20	
D-RATS Part IV for D-STAR setup V2.doc	D-RATS_operating_guide_0.3.3.pdf 1397.0 KB 15:59:43 2013-11-20	
D-RATs Training for Skywarn Group@2013-06-07	D-RATS_Operating_Guide_Addendum_02232012.pdf 110.0 KB 13:17:45 2013-12-17	
D-RATS WL2K gateways.txt	D-STAR and SFARC.txt 373 B 13:22:49 2013-01-12	
D-RATS_Basic_E-mail_Procedures.pdf	Email showing up in Outbox.txt 810 B 13:18:12 2013-12-17	
D-RATS_operating_guide_0.3.3.pdf	Email test PART 1.txt 1.0 KB 16:08:36 2013-11-20	
D-RATS_Operating_Guide_Addendum_02232012.	Email test PART 2.txt 1.0 KB 14:14:05 2013-08-21	
D-Star radios.txt	Gmail accounts for D-RATS.txt 841 B 13:18:40 2013-12-17	
DRATS overlay_LosAlamos.csv	Key NM SAR Ham Repeaters.csv 8.0 KB 08:48:30 2013-12-14	
Email Primer.txt	losalamos_firestations.csv 471 B 08:49:06 2013-12-14	
Email showing up in Outbox.txt	N5BGC shack.JPG 170.0 KB 13:23:50 2013-01-12	
Email test PART 1.txt	WINLINK accounts for D-RATS.txt 624 B 13:19:20 2013-12-17	
Email test PART 2.txt		Mu Statur
Forms.txt		Online •
		Online (D-RATS)
Connected to W5MPZ-R		N4VIP

FILES Window [Tab](continued)

- To retrieve a file, highlight it and click download
- To send a file to the remote station, highlight a file in your local list and click upload
- Lower left windows shows the two D-RATS programs (yours and the remote) handshaking
- Be sure to click on the disconnect button when you are finished exchanging files with a station

Note: Lower left window shows everything put into the Event Log Tab

🕲 D-RATS: N4VIP	
Eile View Help	
Messages Chat Files Event Log	Stations (3)
Refresh Delete Upload Local Connect Disconnect Download Delete	V5MPZ-R (85HPT (8m)
Filename 🗸 Kation: W5PPZ-R 🔍 W5PMZ 🗸 K	(E5ILI (9m)
D-RATS_Operating_Guide_Addendum_02232012. Filename Size Date)
D-Star radios.txt D-RATS Albuquerque map sites.csv 349 B 15:24:06 2012-11-12	
DRATS overlay_LosAlamos.csv	
Email Primer.txt	
Email showing up in Outbox.txt	
Email test PART 1.txt D-RATS Part IV for D-STAR setup V2.doc 86.0 KB 13:14:08 2013-12-17	
Email test PART 2.txt DrARTS_Basic_E-mail_Procedures.pdf 81.0 KB 15:38:19 2013-11-20	
■ Forms.txt ■ D-RATS_operating_guide_0.3.3.pdf 1397.0 KB 15:59:43 2013-11-20	
Graail accounts for D-RATS.txt	
▶ Key NM SAR Ham Repeaters.csv ▶ D-STAR and SFARC.txt 373 B 13:22:49 2013-01-12	
Email showing up in Outbox.btt 810 B 13:18:12 2013-12-17	
■ Iosalamos_firestations.csv 10 Email test PART 1.txt 1.0 KB 16:08:36 2013-11-20	
Izhuf_1.exe Email test PART 2.txt 1.0 KB 14:14:05 2013-08-21	
▶ Net close.txt ■ Gmail accounts for D-RATS.txt 841 B 13:18:40 2013-12-17	
■ Next meetings.txt 8.0 KB 08:48:30 2013-12-14	
NM ARES Digital Drill 24 Nov.txt	
Santa Fe County Repeaters.csv NSBGC shack.JPG 170.0 KB 13:23:50 2013-01-12	
SFARES QTHs.csv WINLINK accounts for D-RATS.txt 624 B 13:19:20 2013-12-17	
TEXT FILE.txt	My Status
WINLINK accounts for D-RATS.tst	Online 🔹
	Online (D-RATS)
[W5PMZ] Receiving file N5BGC shackJPG of size 155945 [00%]	N4VIP

FILES Window [Tab](continued)

Event Log Tab is a list of all transactions that have taken place on the port or ports you are connected to. This is useful for troubleshooting and gaining knowledge about how D-RATS works behind the scenes. You can't edit or copy this screen.

Elle Yiew Help Messages Chat Files Event Log Stations (3) Show event type All Containing text: Enter filter text Time Description 2014-01-05 08:3523 File "N5BGC shack.JPG" Received 2014-01-05 08:4245 Station W5MPZ-R is now Online: W5MPZ Rafflector system monitor 2014-01-05 08:4245 Station KESHPT is now Unattended: KESHPT, Lew, El Paso, TX DM61sv 2014-01-05 08:4241 Vation KESHL in ged CQCQCQ [WSPMZ] (Request) 2014-01-05 08:3412 Station KESHPT is now Unattended: KESHPT, Lew, El Paso, TX DM61sv 2014-01-05 08:3412 Station KESHLT is now Online: Online (D-RATS) 2014-01-05 08:3412 Station KESHPT is now Unattended: KESHPT, Lew, El Paso, TX, DM61sv 2014-01-05 08:3412 Station KESHPT is now Unattended: KESHPT, Lew, El Paso, TX, DM61sv 2014-01-05 08:3412 Station KESHLT is now Online: Online (D-RATS) 2014-01-05 08:3412 Station KESHLT is now Unattended: KESHPT, Lew in El Paso, TX, DM61sv 2014-01-05 08:3413 Station W5MPZ-R is now Online: W5MPZ Rafflector system monitor 2014-01-05 08:3414 W5MPZ-R is now Online: W5MPZ Rafflector system monitor 2014-01-05 08:3441 W5MPZ-R is now Online: W5MPZ Rafflector system monitor 2014-01-05 08:3441 W5MPZ-R is now Online: W5MPZ Rafflector system monitor 2014-01-05 08:3441 W5MPZ-R connecting 2014-01-05 08:3342 W5MPZ- Connecting <li< th=""></li<>
Itessage Files Event Log Stations (3) Show event type: Image: Containing text: Enter filter text WSMP2-R (1m) Image: Description KBSHPT (13m) KBSHPT (13m) 2014-01-05 08:52:3 File "NSBGC shack.JPG" Received KESHPT (13m) 2014-01-05 08:42:4 Station KSMPZ-R is now Online: WSMPZ Rafflector system monitor KESILI (14m) 2014-01-05 08:42:4 Station KSMPZ-R is now Online: WSMPZ Rafflector system monitor KESILI (14m) 2014-01-05 08:42:4 NtVIP replied to ping from KESILI with: Don in Santa Fe, NM DM65xq (WSPMZ] KesiLi (14m) 2014-01-05 08:42:4 Station KESILI pinged CQCQCQ (WSPMZ] (Request) KesiLi pinged CQCQCQ (WSPMZ] (Request) 2014-01-05 08:42:1 Station KBSHPT is now Uniterie (Inter Constrop Constrap Constra
Show went type: All Containing text: Enter filter text WSMPZ-R (Lm) Time Description K85HPT (L3m) 2014-01-05 08:55:33 File "NSBGC shack JPG" Received K85HPT (L3m) 2014-01-05 08:42:44 Station WSMPZ-R is now Online: WSMPZ Ratflector system monitor K55LI (14m) 2014-01-05 08:42:45 Station KS5HPT is now Unattended: KB5HPT, Lew, EI Paso, TX DM61sv K55LI (14m) 2014-01-05 08:42:41 WVIP replied to ping from KESILI with: Don in Santa Fe, NM DM65xq [WSPMZ] High Pasition K55LI pinged CQCQCQ (USPMZ] (Request) 2014-01-05 08:42:41 Station KS5HPT is now Unattended: KB5HPT, Lew, EI Paso, TX DM61sv High Pasition K55LI pinged CQCQCQ (USPMZ] (Request) 2014-01-05 08:42:41 Station KS5HPT is now Unattended: KB5HPT, Lew, EI Paso, TX DM61sv High Pasition K55LI pinged CQCQCQ (USPMZ) (Request) 2014-01-05 08:34:21 Station KS5HPT is now Unattended: KB5HPT, Lew, EI Paso, TX DM61sv (W5PMZ] High Pasition WSMPZ-R is now Online: WSMPZ Ratflector system monitor 2014-01-05 08:34:12 Station WSMPZ-R is now Online: WSMPZ Ratflector system monitor 2014-01-05 08:34:11 2014-01-05 08:34:12 Station WSMPZ-R is now Online: WSMPZ Ratflector system monitor High Pasition WSMPZ-R is now Online: WSMPZ Ratflector system monitor 2014-01-05 08:34:13 Station WSMPZ-R is now Online: WSMPZ Ratflector system monitor High Pasition WSMPZ-R is now Online: WSMPZ Ratflector system monitor 2014-01
TimeDescriptionK85HPT (13m)2014-01-05 08:55:33File "N5BGC shack.JPG" ReceivedKE5ILI (14m)2014-01-05 08:42:45Station W5MPZ-R is now Online: W5MPZ Ratflector system monitorKE5ILI (14m)2014-01-05 08:42:45Station K85HPT is now Unattended: K85HPT, Lew, EI Paso, TX DM61svHVIP replied to ping from KE5ILI with: Don in Santa Fe, NM DM65xq [W5PMZ]2014-01-05 08:42:41NVIP replied to ping from K5ILI with: Don in Santa Fe, NM DM65xq [W5PMZ]HVIP replied to ping from K5ILI with: Don in Santa Fe, NM DM65xq [W5PMZ]2014-01-05 08:42:41Station KE5ILI pinged CQCQCQ (W5PMZ] (Request)Station KE5ILI is now Online: (D-RATS)2014-01-05 08:34:12Station KE5HPT is now Unattended: KB5HPT, Lew, EI Paso, TX DM61svHVIP replied to ping from N4VIP with: KB5HPT, Lew, EI Paso, TX DM61sv [W5PMZ]2014-01-05 08:34:12Station KE5HPT replied to ping from N4VIP with: KB5HPT, Lew, EI Paso, TX, DM61sv [W5PMZ]HVIP replied to ping from N4VIP with: KB5HPT, Lew in EI Paso, TX, DM61sv [W5PMZ]2014-01-05 08:34:12Station W5MPZ-R is now Online: W5MPZ Ratflector system monitorHVIP pinged CQCQCQ [W5PMZ] (Request)2014-01-05 08:34:13Station W5MPZ-R is now Online: W5MPZ Ratflector system monitorHVIP pinged CQCQCQ [W5PMZ] (Request)2014-01-05 08:34:14W5MPZ-R replied to ping from N4VIP with: Running D-RATS 0.3.3 (Linux - Ubuntu 10.04.4 LTS) [W5PMZ]HVIP pinged CQCQCQ [W5PMZ] (Request)2014-01-05 08:34:13W5MPZ-R replied to ping from N4VIP with: Running D-RATS 0.3.3 (Linux - Ubuntu 10.04.4 LTS) [W5PMZ]HVIP pinged CQCQCQ [W5PMZ] (Request)2014-01-05 08:34:14W5MPZ-R replied to ping from N4VIP with: Running D-RATS 0.3.3 (Linux - Ubuntu
2014-01-05 08:35:33 File "NSBGC shack.JPG" Received KESILI (14m) 2014-01-05 08:42:40 Station WSMPZ-R is now Online: WSMPZ Ratflector system monitor Image: Station WSMPZ-R is now Unattended: KBSHPT, Lew, EI Paso, TX DM61sv 2014-01-05 08:42:41 NVIP replied to ping from KESILI with: Don in Santa Fe, NM DM65xq [WSPMZ] Image: Station KBSHPT is now Unattended: KBSHPT, Lew, EI Paso, TX DM61sv 2014-01-05 08:42:41 KSILI pinged CQCQCQ [WSPMZ] (Request) Image: Station KESHPT is now Unattended: KBSHPT, Lew, EI Paso, TX DM61sv 2014-01-05 08:42:12 Station KESHPT is now Unattended: KBSHPT, Lew, EI Paso, TX DM61sv Image: Station KESHPT is now Unattended: KBSHPT, Lew, EI Paso, TX DM61sv 2014-01-05 08:34:12 Station KESHPT ris now Unattended: KBSHPT, Lew, EI Paso, TX DM61sv Image: Station KBSHPT is now Unattended: KBSHPT, Lew, IEI Paso, TX, DM61sv [WSPMZ] 2014-01-05 08:34:12 KBSHPT replied to ping from N4VIP with: KBSHPT, Lew in EI Paso, TX, DM61sv [WSPMZ] Image: Station KBSHPT ris now Unattended: KBSHPT, Lew in EI Paso, TX, DM61sv [WSPMZ] 2014-01-05 08:34:12 KBSHPT replied to ping from N4VIP with: KBSHPT, Lew in EI Paso, TX, DM61sv [WSPMZ] Image: Station KBSHPT ris now Unattended: KBSHPT, Lew in EI Paso, TX, DM61sv [WSPMZ] 2014-01-05 08:34:12 KBSHPT replied to ping from N4VIP with: KBSHPT, Lew in EI Paso, TX, DM61sv [WSPMZ] Image: Station KBSHPT ris now Unattended: KBSHPT, Lew in EI Paso, TX, DM61sv [WSPMZ] 2014-01-05 08:34:13
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[©] ² ^{2014-01-05 08:34:12 ^{Station KB5HPT is now Unattended: KB5HPT, Lew, EI Paso, TX DM61sv ^{IE Daso, TX DM61sv [W5PMZ] ^{IE Da}}}}</sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup>
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[©] ² ^{2014-01-05 08:34:11 ¹ ^{Station W5MPZ-R is now Online: W5MPZ Rafflector system monitor [®] ^{2014-01-05 08:34:10 ^{N5MPZ-R replied to ping from N4VIP with: Running D-RATS 0.3.3 (Linux - Ubuntu 10.04.4 LTS) [W5PMZ] [®] ^{2014-01-05 08:34:04 ^{N5MPZ-R replied to ping from N4VIP with: Running D-RATS 0.3.3 (Linux - Ubuntu 10.04.4 LTS) [W5PMZ] [®] ^{2014-01-05 08:34:04 ^{N5MPZ-R replied to ping from N4VIP with: Running D-RATS 0.3.3 (Linux - Ubuntu 10.04.4 LTS) [W5PMZ] [®] ^{2014-01-05 08:34:04 ^{N5MPZ-R replied to ping from N4VIP with: Running D-RATS 0.3.3 (Linux - Ubuntu 10.04.4 LTS) [W5PMZ] [®] ^{2014-01-05 08:34:04 ^{N5MPZ-R replied to ping from N4VIP with: Running D-RATS 0.3.3 (Linux - Ubuntu 10.04.4 LTS) [W5PMZ] [®] ^{2014-01-05 08:34:04 ^{N5MPZ-R replied to ping from N4VIP with: Running D-RATS 0.3.3 (Linux - Ubuntu 10.04.4 LTS) [W5PMZ] [®] ^{2014-01-05 08:34:04 ^{N5MPZ-R replied to ping from N4VIP with: Running D-RATS 0.3.3 (Linux - Ubuntu 10.04.4 LTS) [W5PMZ] [®] ^{2014-01-05 08:34:04 ^{N5MPZ-R replied to ping from N4VIP with: Running D-RATS 0.3.3 (Linux - Ubuntu 10.04.4 LTS) [W5PMZ] [®] ^{2014-01-05 08:34:04 ^{N5MPZ-R replied to ping from N4VIP with: Running D-RATS 0.3.3 (Linux - Ubuntu 10.04.4 LTS) [W5PMZ] [®] ^{2014-01-05 08:34:04 ^{N5MPZ-R replied to ping from N4VIP with: Running D-RATS 0.3.3 (Linux - Ubuntu 10.04.4 LTS) [W5PMZ] [®] ^{2014-01-05 08:34:04 ^{N5MPZ-R replied to ping from N4VIP with: Running D-RATS 0.3.3 (Linux - Ubuntu 10.04.4 LTS) [W5PMZ] [®] ^{N5MPZ-R replied to ping from N4VIP with: Running D-RATS 0.3.3 (Linux - Ubuntu 10.04.4 LTS) [W5PMZ] ^{N5MPZ-R replied to ping from N4VIP with: Running D-RATS 0.3.3 (Linux - Ubuntu 10.04.4 LTS) [W5PMZ] ^N}}}}}}}}}}}}}}}}}}}}}}}}}}
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6. MESSAGES Window [Tab]

Prior to using the MESSAGES tab, you must configure your Outgoing Email and Email Accounts. After doing so, you should confirm that POP is enabled in your Gmail Account. To do so, log into your Gmail account, go to Settings>Forwarding and POP/IMAP and check that POP is enabled.

Where all pre-formatted messages are sent and received

Looks like and functions as e-mail client software

User can exchange pre-formatted messages with:

- Other D-RATS users;
- Internet e-mail servers; and

• WinLink 2000 System (WL2K) RMS stations or CMS servers.

To send and receive internet e-mail, you must enter incoming and outgoing <u>server information</u> in Preferences window

D-RATS only sends and receives plain text, and does not support HTML based e-mail For this reason you should set up an e-mail account just for use with D-RATS, e.g. <u>donhinsman@gmail.com</u>



- Other D-RATS users using New>memo (Informal Memo form)
 - Sends a memo to another online Station

Fill in Form with final destination Call sign

Note: One can Send, Save (goes into the Draft box), Send via or Print (shows on screen)

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• Other D-RATS users

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Used "Send" so memo will stay in the Outbox until W5SAF comes online on W5MPZ

SEND via Note: Send via calls up the Enter destination window

Enter destination		23
Station	Unknown	•
Port	W5PMZ	•
	<u>o</u> k <u>c</u>	ancel

In the following Window, I have selected W5SAF (online in the Station Panel).

The email sent by "Send via" will first go to the Destination station (e.g. W5SAF) by the designated port. The designated port must have already identified the sender station in Preferences>Email access to enable reception of the email. Since the "messages" is an email, the destination station will see the "message" in his/her Outbox and can then send via his/her internet server. If the Port wasn't to a RATflector (via the internet) but rather a radio (a connected D-STAR), then Send via allows a bridge by the RF segment over areas with internet outage.

¢	Enter destination		Ĺ	23
	Station	W5SAF		-
	Port	W5PMZ		•
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- Internet e-mail address using New>email (Email Message)
 - Sends an email to the SMTP server defined in your Preferences>Network>Outgoing Email (e.g. SMTP.GMAIL.COM)

• Note: you can only have one Outgoing Email server defined but many Preferences>Network>Email Accounts (e.g. POP3.GMAIL.COM)

Fill in Form with final destination email address

B D-KATS: N4VIP		
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Messages Chat Files Event Log		Stations (1)
		W5SAF (5m)
New Forward Reply Delete		
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Source Callsign N4VIP		
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1 Path		Online 💌
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• Internet e-mail address

Used "Send" so appears in the Outbox and then disappears (has been sent)

D-RATS: N4VIP		
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		My Status
		Online (D-RATS)
		NAVIP

Can be seen in the Sent box

D-RATS: N4VIP								
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Outbox	일 N4VIP	W5SAFD	TEST 4 FROM DONHINSMAN@GMAIL.COM	email	14:2			
🔚 Sent	M4VIP	W5SAFDR	TEST 3 FROM DONHINSMAN@GMAIL.COM WITH COMMAS	email	13:18			
Trash	일 N4VIP	dhinsma	Test 2 from DONHINSMAN@GMAIL.COM WITH SEMICOLONS	email	13:1 🕖			
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	M4VIP	donhins	TEST PM BRAVO	email	16:17			
	M4VIP	dhinsman	PM TEST ALFA	email	15:50			
	M4VIP	dhinsman	PM TEST	email	15:38			
	일 N4VIP	dhinsma	2nd test to 3 emails	email	15:3			
	应 N4VIP	EOC	MEMO TEST 2	тето	10:0			
	일 N4VIP	W5SAF	MEMO TEST	memo	10:0			
	일 N4VIP	W5SAF	MEMO TEST	memo	09:5			
	일 N5BGC	n5bgcdr	Test	email	16:3			
	일 N4VIP	dhsfares	Test 1 on 16 Dec	email	16:0			
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						N4VIP		

- WinLink 2000 System (WL2K) RMS stations or CMS servers using New>email (Email Message)
 Sends an email to the WL2K server defined in your Preferences>Messages
 - Note: You must have a registered WL2K email address, e.g. <u>N4VIP@winlink.org</u>
 - Note: So you must be a ham
 - In order for D-RATS to know this is a WL2K email and not a normal email, you must preface the email address with WL2K:

🖗 D-RATS: NAVIP	
Eile View Help	
Messages Chat Files Event Log	Stations (2)
	W5SAF
New Forward Reply Delete Email Message	W5MPZ-R (16m)
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E Inbox ⊠ N4VIP WL Save Send Via Print email 14:5)
Email Message	_
Routing Information	
Source Callsign N4VIP	
Destination Callsign WL2K:N4VIP@winlink.org	
Subject WL2K Email #2	
Message	
In order for the "Destination" to read the WL2K email, he/she must have access to the WL2K System (HE, VHE or telenet)	
Untitled 73 de N4VIP on D-RATS	
Attachments	My Status
1 Path	Online 🔻
	Online (D-RATS)
	N4VIP!

Winlink 2000 (WL2K) is a worldwide system of volunteer sysops, radio stations and network assets supporting e-mail by radio, with non-commercial links to internet e-mail. The system provides valuable service to <u>emergency communicators</u> and to licensed radio operators without access to the internet. You must hold an Amateur Radio license or be a member of a supported organization or agency to use the Winlink 2000 system. Usage and software is free for all who qualify.

RMS Express 1.2.20.0 - 1	N4VIP	-				-	-	- 0 X
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k5sca@arrl.net								
KF5AVG								
N4VIP WESAE								~
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This is the RMS Express Window for N4VIP using Telnet WL2K.

- 7. MAP including Map Downloader
- Map Downloader
 - Must define Map Storage Path (Preferences>Paths)
 - Must run Map Downloader one time
 - Enter your latitude, longitude and max zoom 15, then Start
 - Download takes a long time and puts maps into your Map Storage Path
- Map (View, Map), drag as wide as possible and height to your screen
- Note: Stations (My station N4VIP) selected with zoom 15





Map (continued) SFARES QTHs (all the QTHs for SFARES members) selected and zoom 10

Key NM SAR Ham Repeaters selected and zoom 8



Map (continued)

Key NM SAR ham repeaters selected, zoom 8 and mouse hovering over Farmington ARES repeater Note: Info – 146.850 - .600 100 State Police Dist 10



Summary

• Map provides positional awareness and information. Can see where all online stations are and can see where resources are.

Map (continued)

D-RATS can import ".csv" files containing static lists of positional information (i.e.: Hospitals, Repeater Sites, EOCs, etc) that can be displayed on the D-RATS Map.

See "D-RATS Creating Static Overlays.pdf" for instructions

View of Key NM SAR Ham Repeaters.csv

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25 Artesia /r 32.795 -104.213 442.450+5162.2 State Police Dist 3 TRUE	25 /	Artesia		/r	32.795	-104.213		442.450 +5 162.2 State	Police Dist 3	TRUE													
26 W5COW - FLETC /r 32.833 -104.667 444.975 +5 156.7 State Police Dist 3 TRUE	26	N5COW - FLETC		/r	32.833	-104.667		444.975 +5 156.7 State	Police Dist 3	TRUE													
27 Dark Canyon Megalink /r 32.07733 -104.738 449.275 -5 67.0 State Police Dist 3 TRUE	27 [Dark Canyon Megalin	ık .	/r	32.07733	-104.738		449.275 -5 67.0 State P	olice Dist 3	TRUE													
28 W7DXX /r 32.26667 -106.917 147.380 +.600 100.0 State Police Dist 4 TRUE	28	N7DXX		/r	32.26667	-106.917		147.380 +.600 100.0 Sta	ate Police Dist 4	TRUE													
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	Read	ly	ium Repea															_		III II 10	0% 🕞		•

Map (continued)



8. RF Segment with D-STAR radios

First, need to add a new "Radio" in Preferences, click Add then (Use "D-RATS Part IV for D-STAR setup V2.DOC"

Name	ICOM	
T		
Туре	Serial	•
A D-STA	R radio connected to a serial p	ort
	Parameters	
Serial Port	COM4	•
Baud Rate	9600	•

COM port should be a number 4 or less! Baud rate should be 4800 for ID-31A, 9600 for 2820 and 880H. COM port can be seen in Device Manager, use orange cable connection between computer and D-STAR radio

🐞 Config						<u> </u>
Preferences	Enabled 4	Port	Settings	Sniff ◀	Raw Text 4	Ni
Paths		net:xylene.no-ip.biz:9000				Α
GPS		dongle:				D'
Appearance		net:ae5he.ham-radio-op.net:90	00			EI
Chat		net:rat.gaares.org:9000				G.
Sounds		net:georgiadstar.dyndns.org:90	00			G.
Messages	V	COM4	9600			IC
🔳 Radio		net:k3pdrrats.dyndns.org:9000				ĸ
Transfers		agwpe:localhost:8000				P۱
Network		net:ref.d-rats.com:9000				R
TCP Gateway		tnc-ax25:COM7:7:	9600	1		T!
TCP Forwarding		net:W5MPZ.ORG:9000				w
Outgoing Email						
Email Accounts			- 414		Delete	
Email Access		Add	ait		Delete	
						2
			<u>S</u> a	ve	<u>C</u> ancel	

Check enabled for "ICOM" (or however you labeled it) Click Save (only enable the radio for initial checkout)

D-Star radio must have low-speed data settings. For example, GPS must be turned off since the lowspeed data goes into the same frames as GPS. Chapter 4 in the ID-31A Advanced Instructions show the various menu settings required for low-speed data transmission. For other D-Star radio, search your manual for "low-speed data". For the ID-31A, the settings are:

Set the "GPS SELECT" option to "OFF", (MENU > GPS > GPS Set > **GPS Select, OFF**) Set the "GPS OUT" option to "OFF", (MENU > GPS > GPS Set > **GPS Out, OFF**) Set the "GPS TX Mode" option to "OFF",(MENU > GPS > **GPS TX Mode, OFF**) Configure the serial data communication software as follows.

- Port : The COM port number which is used by the ID-31A/E.
- Baud rate : 4800 bps
- Data : 8 bit
- Parity : None
- Stop : 1 bit
- Flow control : Xon/Xoff

Function > DATA SPEED > 4800

For the ICOM 880H, the settings for low-speed data are:

GPS Tx Off

MENU (R&S) > GPS > (P&S), GPS Tx OFF

DATATX AUTO

MENU > (P&S) > DV SET > MONI (R&S) > DATATx > MONI > AUTO > MONI > MENU

Where R&S means rotate the left dial and select, P&S means push the left dial and select.

RF Segment with D-STAR radios (continued)

Now must setup D-STAR radio For initial checkout, use Simplex

- Pick a repeater frequency and then change offset to 0.0000 (remember to reset after checkout)
- b. Set power output to Low or SLOW.

Test with only one radio

CHAT>Right Click Station Pane>Clear All Right Click Station Pane>Ping All Stations (should see your radio transmit) If radio transmits, proper setup

Test with two radios and D-RATS (perform on both radios)

CHAT>Right Click Station Pane>Clear All

Right Click Station Pane>Ping All Stations on both (should see both radios transmit) Should see other stations call sign in Station Pane but not yours (never yours) If both Station Panes show other station, RF Segment now established



RF Segment with D-STAR radios (continued)

NOTE: WHEN IN THE RF SEGMENT AND USING A D-STAR RADIO, YOU MUST BE A HAM AND CALL SIGN IN D-RATS MUST BE REGISTERED! IN SIMPLEX, IT WILL WORK WITHOUT A CORRECT CALL SIGN BUT YOU ARE VIOLATING FCC RULES. TO USE A REPEATER OR REFLECTOR, CALL SIGN MUST BE REGISTERED AT ONE (AND ONLY ONE) D-STAR REPEATER. ONCE REGISTERED IN A D-STAR REPEATER, THE US TRUST SYSTEM VERIFIES THAT YOUR CALL SIGN IS LEGITITMATE BEFORE ALLOWING YOUR D-STAR RADIO TO TRANSMIT THROUGH ANY REPEATER OR THROUGH A REPEATER AND INTO A D-STAR GATEWAY, I.E. INTO THE INTERNET.

Once RF Segment established, you can do anything in the RF Segment you can do via internet, i.e. CHAT, FILES, MESSAGES. However, you must have a good RF link. To check RF link between two stations, you should select the Call Sign in the Station Pane, right click and Test Connectivity.

RF Segment with D-STAR radios (continued)

Ø D-RATS: N4VIP	
<u>File View H</u> elp	
Messages Chat Files Event Log	Stations (1)
Add Filter Remove Filter Join Channel Open Private Chat D-RATS vdaily-02232012 Copyright 2012 Dan Smith (KK7DS) [2014-01-14 07:54:11] [WSPMZ] WSMPZ-R: [QST] Albuquerque, New Mexico: 34 F (1 C) (Tue, 14 Jan 2014 14:52:00 GMT) [07:54:23] N3TSZ: Now Online: QRV (Port WSPMZ) [2014-01-14 08:25:12] WSSAF: Now Online: Online (D-RATS) (Port ICOM) [08:25:50] [ICOM] W5SAF: [QST] Santa Fe, New Mexico: 28 F (-2 C) (Tue, 14 Jan 2014 14:53:00 GMT) [2014-01-14 08:35:59] [ICOM] W5SAF: [QST] Santa Fe, New Mexico: 28 F (-2 C) (Tue, 14 Jan 2014 14:53:00 GMT) [08:43:55] WSSAF: Now Online: Online (D-RATS) (Port ICOM) [08:44:10] WSSAF: Now Online: Online (D-RATS) (Port ICOM) [08:53:07] [ICOM] WSSAF: [QST] Santa Fe, New Mexico: 28 F (-2 C) (Tue, 14 Jan 2014 14:53:00 GMT) [08:54:52] WSSAF: Now Online: Online (D-RATS) (Port ICOM)	Ping Test Connecc Request Posi Send file ☆ Get version Request mai @ Remove @ Reset ▲ Clear All Ping All Stat Request all p
Main ICOM Quick Messages QSTs Connectivity Test	My Status Online Online N4VIP
Run Test Status	
Sent Received Total Packets Bytes	
Start	
<u>Back</u> <u>Apply</u> <u>Cancel</u>	

Click Start, 10 packets are sent and received and at the end of 10 you will receive a percentage. 70% is OK, 80% is better and 100% is a very good link. 80% or better should allow the RF segment to function properly.

9. Trouble shooting

- 1. General
 - a. The D-RATS download is for a 32 bit Windows operating system. If your Windows operating system is 64 bits, you must install a 64 bit version of lzhuf_1.exe in your Program Files\D-RATS\libexec folder. The 64 bit version is 30K big while the 32 bit version is 29K.
- 2. CHAT
 - a. Nothing in the Station Pane
 - i. check Preferences to ensure you have checked the correct "Radio"
 - ii. check lower left CHAT pull down to see that you have selected the correct Radio
 - iii. Right click in Station Pane to Ping All Stations
 - iv. If nothing above works, check to see if you are connected to Internet
 - b. Other stations not receiving your sent Chats
 - i. Check that you are sending to the correct "Radio", check lower left pull down
 - c. Don't see chats in Main Window
 - i. Check for filter or channel window, remove filter if necessary
- 3. FILES
 - a. Don't see your list of shared files, check Preferences to be sure File Transfer Path is defined
 - b. Don't see a list of shared files for other station, check Port and Station Name show in upper right pull downs and that you have connected
- 4. MESSAGES
 - a. FOR ALL TROUBLES WITH MESSAGES, FIRST CHECK THAT YOU CAN SEND OUT AN EMAIL TO YOURSELF (GOES TO OUTBOX) AND RECEIVE IT BACK (GOES INTO INBOX). IF THIS DOESN'T WORK, NOTHING WILL
 - b. ALSO CHECK THAT YOU ENTERED YOUR CALL SIGN IN EMAIL ACCESS IN PREFERENCES
 - c. Messages sit in the Outbox but don't go out, check that you have entered correct name and password for SMTP (Outgoing Email in Preferences)
 - d. Nothing appears in the INBOX when you are certain traffic has been sent to you, check that you have entered correct name and password for POP (Email Accounts in Preferences)
 - e. WL2K messages don't leave the Outbox, check that you prefaced email with WL2K:
- 5. MAPS
 - a. No Data appears when you use the Map Function, have you made your initial Map Download?
 - b. Overlays that you have created or are using don't show, ensure that the Overlay is checked in the lower left pane.
- 6. RF Segment
 - Low speed data communications
 - GPS must be turned off (there are several settings depending on ICOM model)
 - Data TX must be Auto (NOT PTT)
 - Test connectivity, 80% or better between stations is necessary

10. Resources

- 1. D-RATS Training Farmington.DOC
- 2. Gmail accounts for D-RATS.TXT
- 3. WINLINK accounts for D-RATS.TXT
- 4. D-RATS_Operating_Guide_Addendum_02232012.PDF
- 5. Email showing up in you Outbox in D-RATS.DOC
- 6. D-RATS&GmailIV.PDF
- 7. D-RATS configuration Part I Rev 1.DOC
- 8. D-RATS configuration Part II Rev 1.DOC
- 9. Key NM SAR Ham Repeaters.CSV
- 10. D-RATS Creating Static Overlays.PDF
- 11. D-RATS Installing spelling support.PDF
- 12. D-RATS_and_packet_radio-The_Third_Way.PDF
- 13. D-RATS_Basic_E-mail_Procedures.PDF
- 14. D-RATS_operating_guide_0.3.3.PDF
- 15. D-RATS Part IV for D-STAR setup V2.DOC