



D-RATS TRAINING PART I

with
N4VIP, Don Hinsman

D-RATS Training Syllabus

- Installation & Configuration
- D-RATS Part I
 1. Chat & Files
- D-RATS Part II
 1. Messages
- D-RATS Part III
 1. Map
- D-RATS Part IV
 1. RF Segment With D-STAR Radios
 2. Trouble Shooting
 3. Resources

D-RATS Training – Part I

OVERVIEW

CHAT
FILES

D-RATS Training – Part I

CHAT

The screenshot displays the D-RATS software interface. At the top, the window title is "D-RATS: N4VIP". Below the title bar is a menu bar with "File", "View", and "Help". A yellow arrow points to the "Help" menu. The main interface is divided into several sections:

- Messages**: A tabbed interface with "Messages", "Chat", "Files", and "Event Log". The "Chat" tab is active, showing a list of actions: "Add Filter", "Remove Filter", "Join Channel", and "Open Private Chat".
- Chat Area**: The main text area contains the following text:

D-RATS v0.3.9
Copyright 2010 Dan Smith (KK7DS)
Copyright 2014-2020 Maurizio Andreotti (IZ2LXI) & Marius Petrescu (YO2LOJ)

[2020-07-08 08:39:52] KA8JMW-R: Now Unattended: Online (D-RATS) (Port KA8JMW)
[08:39:54] W5SF-R: Now Online: Online (D-RATS) (Port W5SF)
- Stations (2)**: A sidebar on the right lists two stations: "W5SF-R" and "KA8JMW-R".
- My Status**: A section at the bottom right shows the user's status as "Online" and "Online (D-RATS)".
- Input Area**: At the bottom, there is a text input field with "Main" and "KA8JMW" selected, a "Send" button, and checkboxes for "Quick Messages" and "QSTs".

A status bar at the very bottom indicates "Station W5SF-R is now Online: Online (D-RATS)".

D-RATS Training – Part I

CHAT

- 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 Training – Part I

GO TO D-RATS 0.3.9

D-RATS Training – Part I

Stations Pane

The screenshot displays the D-RATS software interface. The window title is "D-RATS: N4VIP". The menu bar includes "File", "View", and "Help". The main area is divided into tabs: "Messages", "Chat", "Files", and "Event Log". Below the tabs are icons for "Add Filter", "Remove Filter", "Join Channel", and "Open Private Chat". The main chat area contains the following text:

D-RATS v0.3.9
Copyright 2010 Dan Smith (KK7DS)
Copyright 2014-2020 Maurizio Andreotti (IZ2LXI) &
Marius Petrescu (YO2LOJ)

[2020-07-08 08:39:52] KA8JMW-R: Now Unattended: Online (D-RATS) (Port KA8JMW)
[08:39:54] W5SF-R: Now Online: Online (D-RATS) (Port W5SF)

At the bottom left, there is a "Main" label and a dropdown menu showing "KA8JMW". A "Send" button is located at the bottom right of the chat area. The "Stations (2)" pane on the right side lists "W5SF-R" and "KA8JMW-R". The "My Status" section at the bottom right shows "Online" and "Online (D-RATS)". The status bar at the bottom indicates "Station W5SF-R is now Online: Online (D-RATS)".

A yellow arrow labeled "SS1" points to the "Stations (2)" pane.

D-RATS Training – Part I

Stations Pane (Area right side of the window)

- Displays call signs heard and 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 displays 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
 - Check on Qrz.com (if you have a QRZ subscription)

D-RATS Training – Part I

GO TO D-RATS 0.3.9

D-RATS Training – Part I

My Status Pane

The screenshot displays the D-RATS software interface. The main window title is "D-RATS: N4VIP". The menu bar includes "File", "View", and "Help". The interface is divided into several sections:

- Messages/Chat/Files/Event Log:** A tabbed interface with "Event Log" selected. Below the tabs are icons for "Add Filter", "Remove Filter", "Join Channel", and "Open Private Chat".
- Event Log Content:**
 - D-RATS v0.3.9
 - Copyright 2010 Dan Smith (KK7DS)
 - Copyright 2014-2020 Maurizio Andreotti (IZ2LXI) & Marius Petrescu (YO2LOJ)
 - [2020-07-08 08:39:52] KA8JMW-R: Now Unattended: Online (D-RATS) (Port KA8JMW)
 - [08:39:54] W5SF-R: Now Online: Online (D-RATS) (Port W5SF)
- Stations (2):** A list on the right side showing "W5SF-R" and "KA8JMW-R". A yellow arrow points down from this section towards the "My Status" pane.
- My Status:** A pane at the bottom right showing the current status as "Online" and "Online (D-RATS)".
- Bottom Bar:** Includes a "Main" tab, a dropdown menu showing "KA8JMW", a "Send" button, and checkboxes for "Quick Messages" and "QSTs".
- Status Bar:** At the very bottom, it reads "Station W5SF-R is now Online: Online (D-RATS)".

D-RATS Training – Part I

My 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)

D-RATS Training – Part I

GO TO D-RATS 0.3.9

D-RATS Training – Part I

Radio Port, Quick Messages & QSTs

The screenshot displays the D-RATS software interface. The window title is "D-RATS: N4VIP". The menu bar includes "File", "View", and "Help". The main interface has tabs for "Messages", "Chat", "Files", and "Event Log". Below the tabs are icons for "Add Filter", "Remove Filter", "Join Channel", and "Open Private Chat". The main chat area contains the following text:

D-RATS v0.3.9
Copyright 2010 Dan Smith (KK7DS)
Copyright 2014-2020 Maurizio Andreotti (IZ2LXI) & Marius Petrescu (YO2LOJ)

[2020-07-08 08:39:52] KA8JMW-R: Now Unattended: Online (D-RATS) (Port KA8JMW)
[08:39:54] W5SF-R: Now Online: Online (D-RATS) (Port W5SF)

A yellow arrow points to the "Main" tab in the chat area. Below the chat area is a text input field with "KA8JMW" selected in a dropdown menu and a "Send" button. At the bottom left, there are checkboxes for "Quick Messages" and "QSTs". At the bottom right, there is a "My Status" section with a dropdown menu showing "Online" and "Online (D-RATS)". The status bar at the bottom indicates "Station W5SF-R is now Online: Online (D-RATS)" and "N4VIP".

D-RATS Training – Part I

Radio Port Selection (designated in Preferences)

- 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

D-RATS Training – Part I

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

D-RATS Training – Part I

QSTs

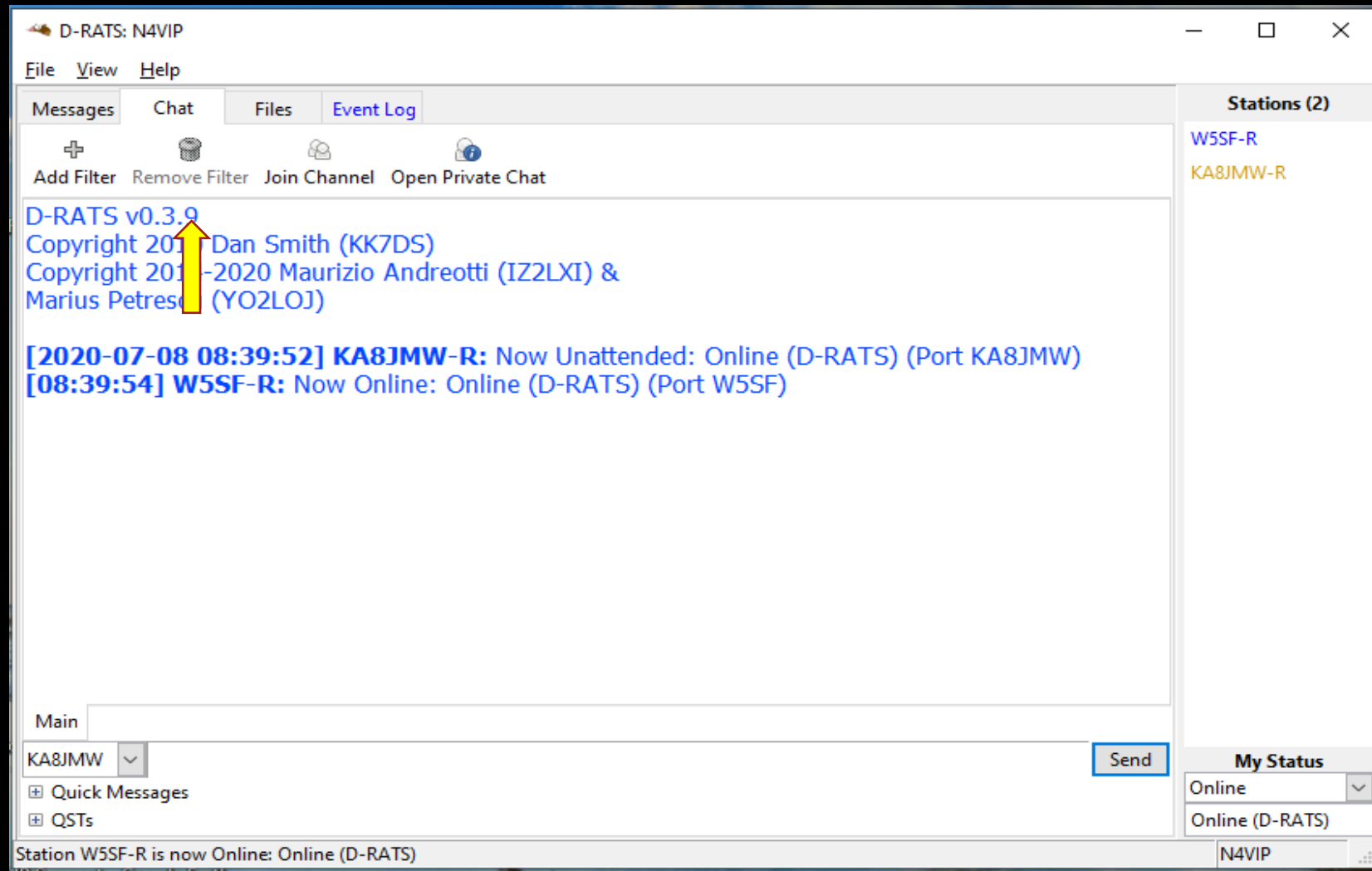
- Various types of bulletins can be sent periodically,
- May contain: a string of text, the contents of a text file, your current position, the position of a station or static location in the map window, the current temperature at an airport, or an RSS or CAP feed
- Use the add button to create a new QST
- A new QST capability has been added with access to OpenWeather. Select QST and select OpenWeather and the station name should be in the following format: City Name, State abbreviation,US, for example Santa Fe,NM,US and choose Current.

D-RATS Training – Part I

GO TO D-RATS 0.3.9

D-RATS Training – Part I

Filters



D-RATS Training – Part I

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

D-RATS Training – Part I

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.

D-RATS Training – Part I

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.

D-RATS Training – Part I

Private Chat

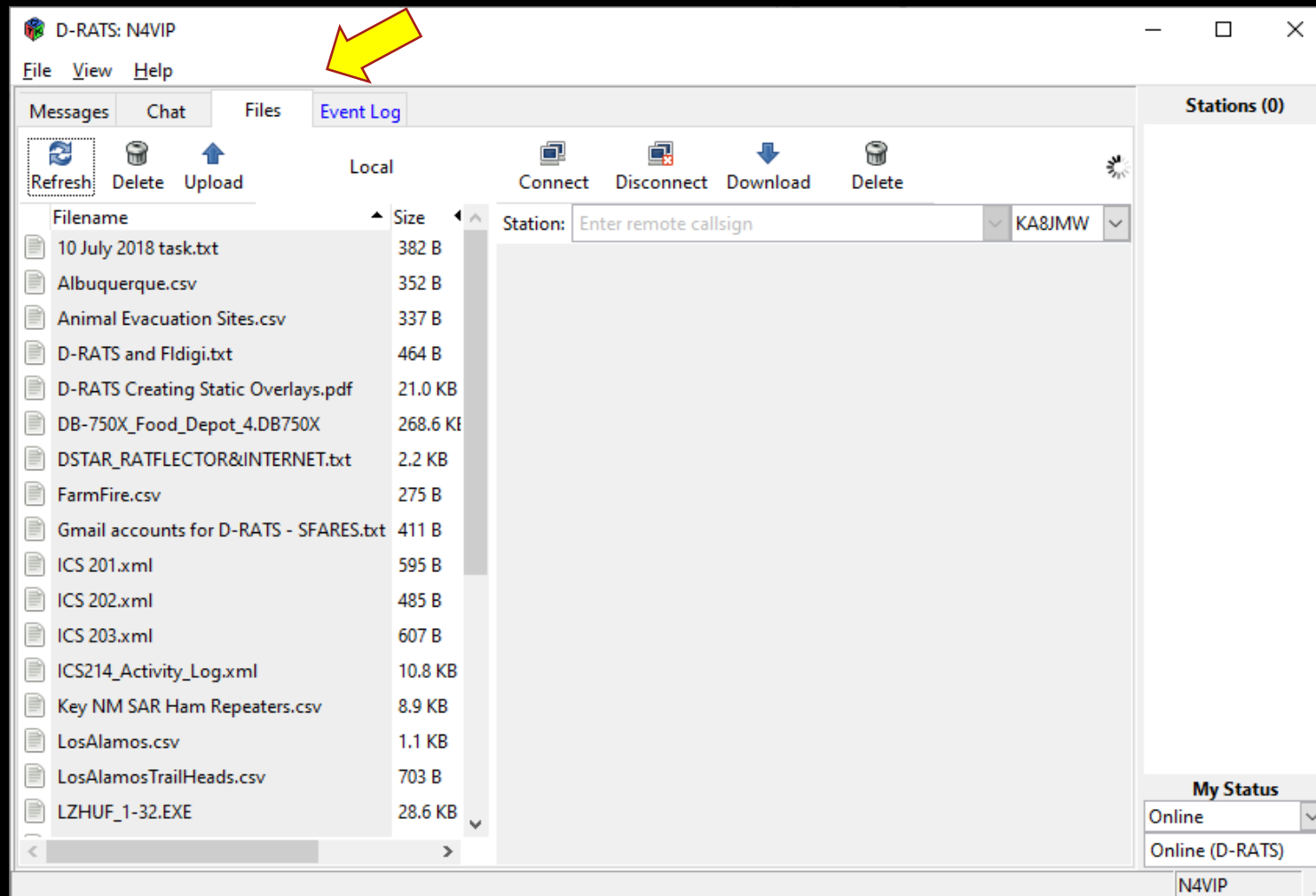
- The third version allows you create a “private” channel with another station

D-RATS Training – Part I

GO TO D-RATS 0.3.9

D-RATS Training – Part I

FILES



The screenshot shows the D-RATS N4VIP application window. The title bar reads "D-RATS: N4VIP". The menu bar includes "File", "View", and "Help". Below the menu bar are tabs for "Messages", "Chat", "Files", and "Event Log". A yellow arrow points to the "Files" tab. The "Files" tab is active, showing a toolbar with "Refresh", "Delete", and "Upload" buttons. Below the toolbar is a list of local files with columns for "Filename" and "Size". To the right of the file list is a "Station:" dropdown menu set to "KA8JMW". At the bottom right, there is a "My Status" section with "Online" and "Online (D-RATS)" options, and a "N4VIP" status indicator.

Filename	Size
10 July 2018 task.txt	382 B
Albuquerque.csv	352 B
Animal Evacuation Sites.csv	337 B
D-RATS and Fldigi.txt	464 B
D-RATS Creating Static Overlays.pdf	21.0 KB
DB-750X_Food_Depot_4.DB750X	268.6 KB
DSTAR_RATFLECTOR&INTERNET.txt	2.2 KB
FarmFire.csv	275 B
Gmail accounts for D-RATS - SFARES.txt	411 B
ICS 201.xml	595 B
ICS 202.xml	485 B
ICS 203.xml	607 B
ICS214_Activity_Log.xml	10.8 KB
Key NM SAR Ham Repeaters.csv	8.9 KB
LosAlamos.csv	1.1 KB
LosAlamosTrailHeads.csv	703 B
LZHUF_1-32.EXE	28.6 KB

D-RATS Training – Part I

FILES

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

D-RATS Training – Part I

FILES

Screen shows selected Port W5SF, Station W5SF-R, connect and files available on W5SF-R

The screenshot displays the D-RATS N4VIP application window. The 'Files' tab is selected, showing a list of files available on the selected station, W5SF-R. A yellow arrow points to the 'Files' tab. The interface includes a menu bar (File, View, Help), a toolbar with Refresh, Delete, and Upload buttons, and a 'Stations (2)' panel on the right showing W5SF-R and KA8JMW-R. The file list is organized into columns for Filename, Size, and Date.

Filename	Size	Date
10 July 2018 task.txt	382 B	19:52:38 2018-07-1
Albuquerque.csv	352 B	22:56:48 2018-03-1
Animal Evacuation Sites.csv	337 B	14:24:46 2014-09-1
D-RATS and Fldigi.txt	464 B	23:49:18 2014-08-1
D-RATS Creating Static Overlays.pdf	21.0 KB	17:55:45 2014-03-1
DB-750X_Food_Depot_4.DB750X	268.6 KB	15:13:21 2019-10-2
DSTAR_RATFLECTOR&INTERNET.txt	2.2 KB	
FarmFire.csv	275 B	23:50:25 2014-08-1
Gmail accounts for D-RATS - SFARES.txt	411 B	22:30:57 2019-01-2
ICS 201.xml	595 B	22:26:41 2018-03-1
ICS 202.xml	485 B	19:55:22 2014-03-1
ICS 203.xml	607 B	19:51:14 2014-03-1
ICS214_Activity_Log.xml	10.8 KB	23:51:21 2014-08-1
Key NM SAR Ham Repeaters.csv	8.9 KB	12:13:23 2018-06-2
LosAlamos.csv	1.1 KB	22:57:17 2018-03-1
LosAlamosTrailHeads.csv	703 B	22:57:40 2018-03-1
LZHUF_1-32.EXE	28.6 KB	20:34:31 2016-01-0

Connected to W5SF-R

My Status: Online (D-RATS)

N4VIP

D-RATS Training – Part I

FILES

- 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

D-RATS Training – Part I

FILES

Note: Lower left window shows everything (line by line put into the Event Log Tab)

The screenshot shows the D-RATS N4VIP application window. The 'Files' tab is active, displaying a file transfer interface. The local file list on the left includes:

Filename	Size
10 July 2018 task.txt	382 B
Albuquerque.csv	352 B
Animal Evacuation Sites.csv	337 B
D-RATS and Fldigi.txt	464 B
D-RATS Creating Static Overlays.pdf	21.0 KB
DB-750X_Food_Depot_4.DB750X	268.6 KB
DSTAR_RATFLECTOR&INTERNET.txt	2.2 KB
FarmFire.csv	275 B
Gmail accounts for D-RATS - SFARES.txt	411 B
ICS 201.xml	595 B
ICS 202.xml	485 B
ICS 203.xml	607 B
ICS214_Activity_Log.xml	10.8 KB
Key NM SAR Ham Repeaters.csv	8.9 KB
LosAlamos.csv	1.1 KB
LosAlamosTrailHeads.csv	703 B
LZHUF_1-32.EXE	28.6 KB

The station file list on the right shows the same files being transferred to WSSF-R. A yellow arrow points to the '10 July 2018 task.txt' file in the local list. The status bar at the bottom indicates 'File "10 July 2018 task.txt" Received'.

D-RATS Training – Part I

FILES

- 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 file “10 July 2018 task.txt” handshaking (action between your D-RATS and the connected one)

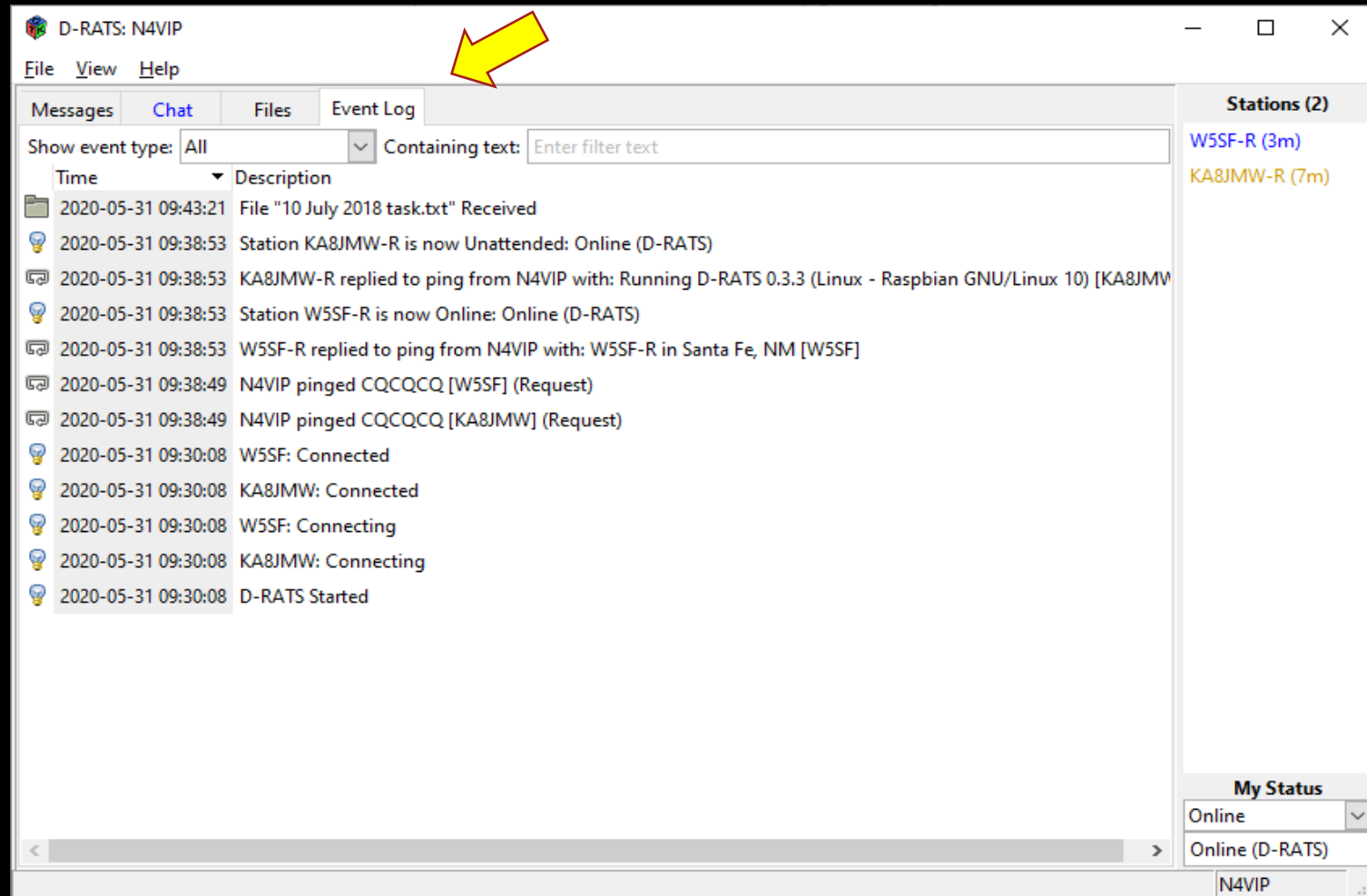
Be sure to click on the disconnect button when you are finished exchanging files with a station

D-RATS Training – Part I

GO TO D-RATS 0.3.9

D-RATS Training – Part I

Event Log



The screenshot shows the D-RATS N4VIP application window. The 'Event Log' tab is selected, and a yellow arrow points to it. The interface includes a menu bar (File, View, Help), a toolbar with 'Messages', 'Chat', 'Files', and 'Event Log' tabs, and a search filter for 'Containing text'. The event log table is as follows:

Time	Description
2020-05-31 09:43:21	File "10 July 2018 task.txt" Received
2020-05-31 09:38:53	Station KA8JMW-R is now Unattended: Online (D-RATS)
2020-05-31 09:38:53	KA8JMW-R replied to ping from N4VIP with: Running D-RATS 0.3.3 (Linux - Raspbian GNU/Linux 10) [KA8JMW]
2020-05-31 09:38:53	Station W5SF-R is now Online: Online (D-RATS)
2020-05-31 09:38:53	W5SF-R replied to ping from N4VIP with: W5SF-R in Santa Fe, NM [W5SF]
2020-05-31 09:38:49	N4VIP pinged CQCQCQ [W5SF] (Request)
2020-05-31 09:38:49	N4VIP pinged CQCQCQ [KA8JMW] (Request)
2020-05-31 09:30:08	W5SF: Connected
2020-05-31 09:30:08	KA8JMW: Connected
2020-05-31 09:30:08	W5SF: Connecting
2020-05-31 09:30:08	KA8JMW: Connecting
2020-05-31 09:30:08	D-RATS Started

On the right side, the 'Stations (2)' panel shows 'W5SF-R (3m)' and 'KA8JMW-R (7m)'. The 'My Status' panel shows 'Online' and 'Online (D-RATS)'. The window title bar reads 'D-RATS: N4VIP' and the taskbar shows 'N4VIP'.

D-RATS Training – Part I

- Event Log

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

D-RATS Training – Part I

REVIEW

CHAT
FILES

For next week, please have your D-RATS email address selected



End
D-RATS Training – Part I