

RATS Quick- Start Guide for N1MM+ Logger

15 May 2020

Robert Marshall KI4MCW



is:

- ▶ De facto standard for contest logging
- ▶ Excellent for MULTI-MULTI operations
- ▶ Every conceivable function
- ▶ Fast, efficient networking with data replication between stations
- ▶ Active development, large pool of developers, frequent updates
- ▶ FREE!
- ▶ Used at RATS Field Day since...



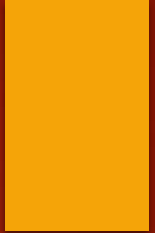
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- ▶ Excellent for MULTI-MULTI operations
- ▶ Every conceivable function
- ▶ Fast, efficient networking with data replication between stations
- ▶ Active development, large pool of developers, frequent updates
- ▶ FREE!
- ▶ Used at RATS Field Day since... 2005?

N1MM+ Logger is also:

- ▶ Not perfect
- ▶ Can be overwhelming
- ▶ Frequent software updates can be hard to manage
- ▶ Not very flexible
- ▶ Radical overkill for casual DX

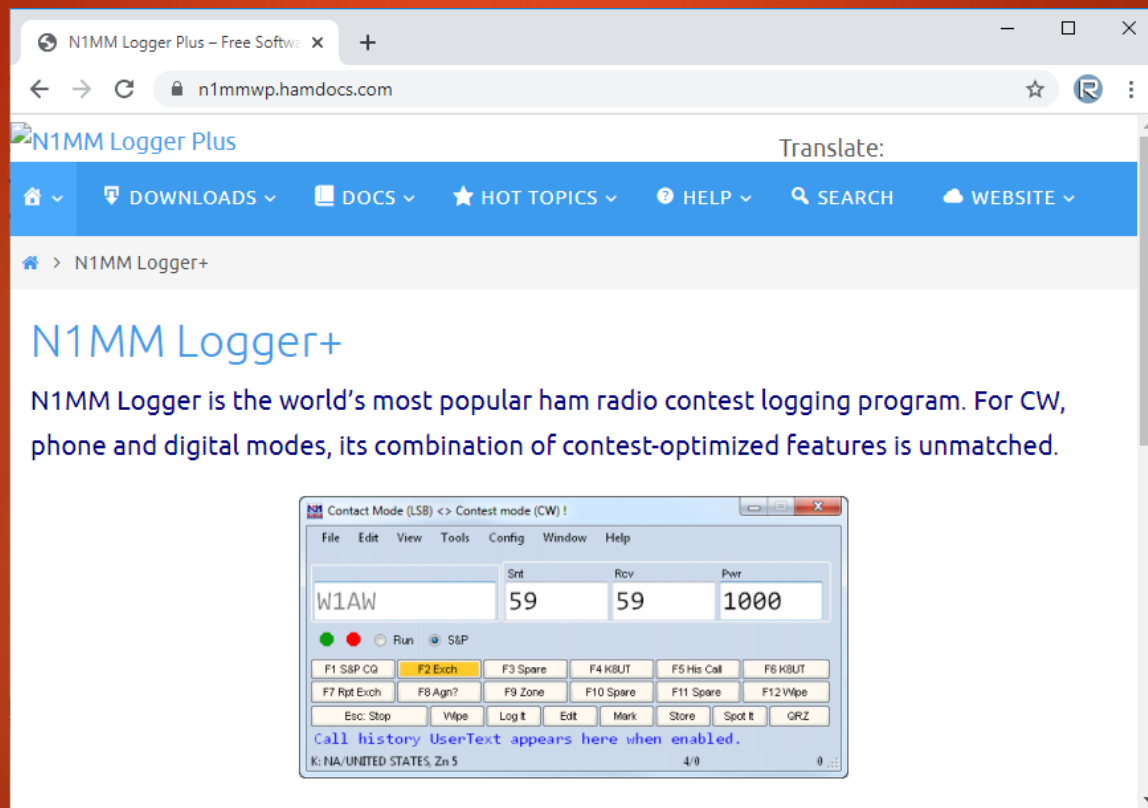
- ▶ ...but is still very effective for solo contesting



Let's begin

Download it (10 min)

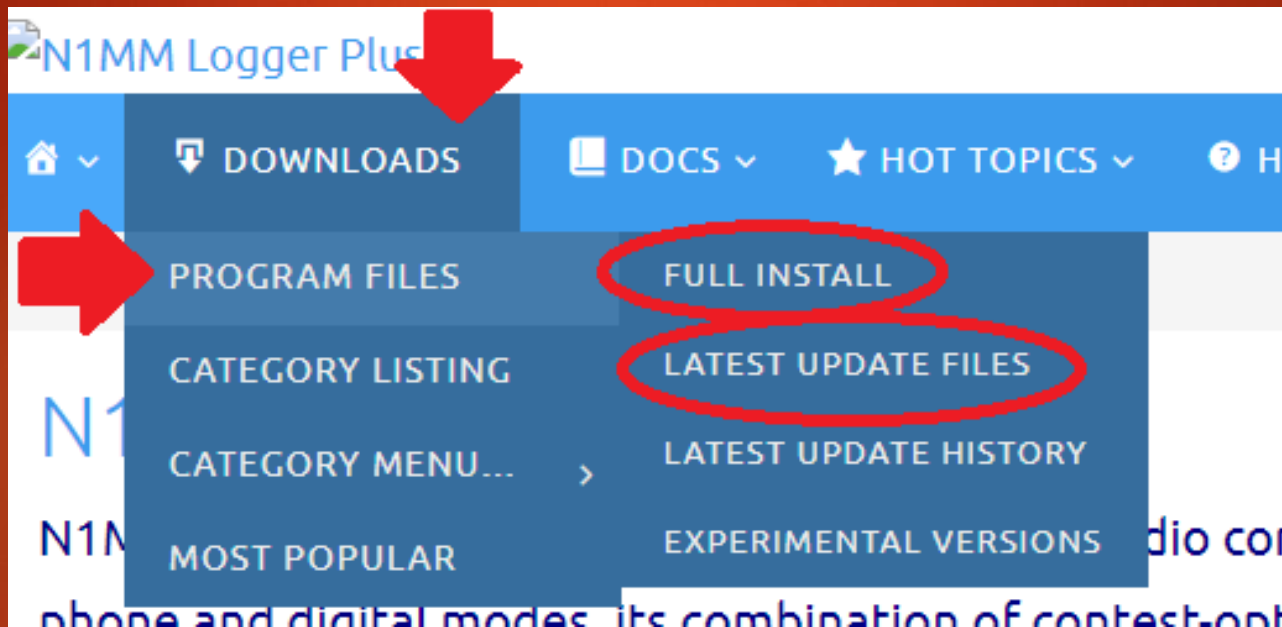
► <https://n1mmwp.hamdocs.com/>



The image shows a screenshot of a web browser displaying the N1MM Logger Plus website. The browser's address bar shows the URL <https://n1mmwp.hamdocs.com/>. The website header includes navigation links for DOWNLOADS, DOCS, HOT TOPICS, HELP, SEARCH, and WEBSITE. The main content area features the title "N1MM Logger+" and a description: "N1MM Logger is the world's most popular ham radio contest logging program. For CW, phone and digital modes, its combination of contest-optimized features is unmatched." Below the text is a screenshot of the N1MM Logger Plus software interface. The software window is titled "Contact Mode (LSB) <> Contest mode (CW)!" and shows a menu bar (File, Edit, View, Tools, Config, Window, Help) and a data entry form with fields for Snt (W1AW), Rcv (59), and Pwr (1000). The interface also includes a status bar at the bottom showing "K: NA/UNITED STATES, Zn 5" and "4/0".

Download it

► <https://n1mmwp.hamdocs.com/>



Get BOTH the “Full Install” and the “Latest Update”

Install it (10 min)

- ▶ Run the “Full Install” first.
- ▶ Then run the “Latest Update”.
- ▶ You will probably need Admin access to run the installs.

Run it (8 seconds)



N1MM
Logger+



Main
Window

14256.00 MIXED+DIG Manual - VFO A Op: W4RAT

File Edit View Tools Config Window Help

CW	PH	DIG	Class	Section
160	160	160		
80	80	80		
40	40	40		
20	20	20		
15	15	15		
10	10	10		

Run S&P

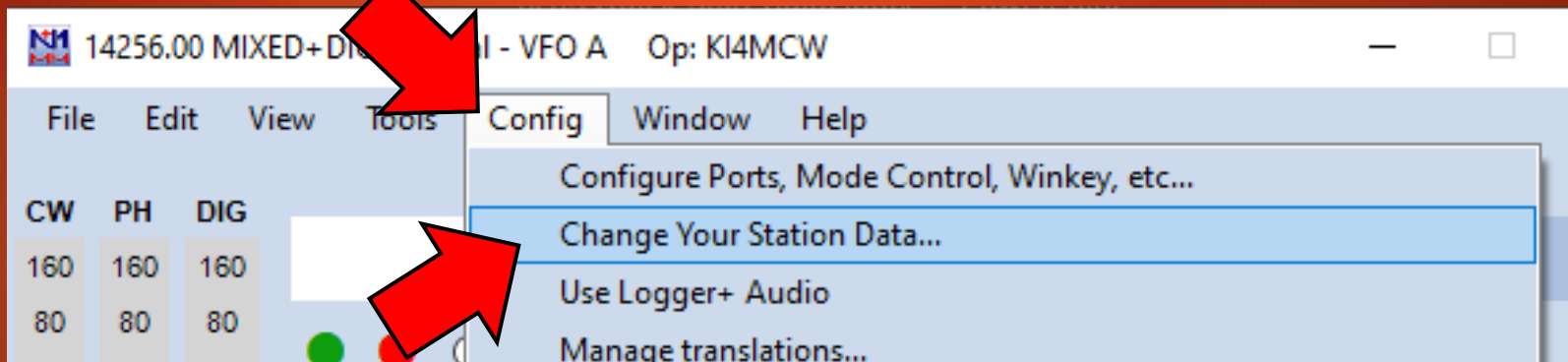
F1 S&P CQ	F2 Exch	F3 Spare	F4 W4RAT	F5 His Call	F6 Spare		
F7 Rpt Exch	F8 Agn?	F9 Zone	F10 Spare	F11 Spare	F12 Wipe		
Esc: Stop	Wipe	Log It	Edit	Mark	Store	Spot It	QRZ

Heading appears here when enabled.
Call history UserText appears here when enabled.

Exported 538 contacts to C:\temp\W4RAT.log 528 1,134

Config: About You (3 min)

► From Main Window



Enter your info

Edit Station Information

Tip: You need to fill out this form or the program will not perform properly... Also, make sure your computer date and time are set to the LOCAL date and time zone for your location.

Call:

Name:

Address:

Address:

City: State: Zip:

Country:

Grid Square: CQ Zone: ITU Zone:

License: Latitude: Longitude:

Station TX/RX: Power:

Antenna: Ant. Height: a.s.l.

ARRL Section:

Rover QTH:

Club:

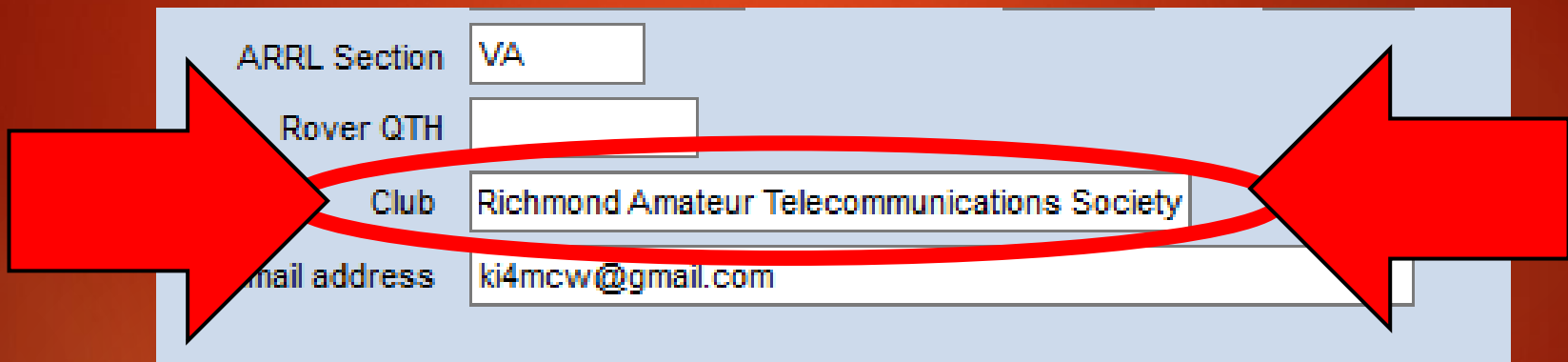
Email address:

* CQ Zone 5

* Grid FM17,
37.5N 77.5W
(close enough)

* Or try:
qrz.com/gridmapper

Include your club!



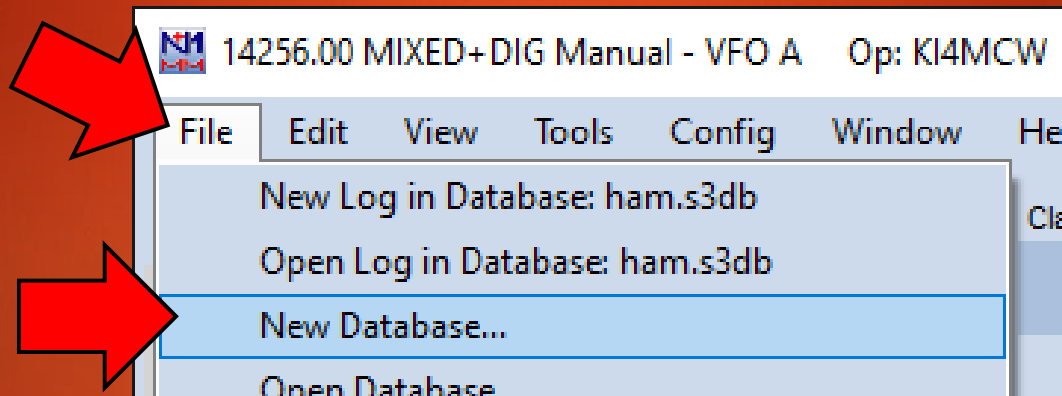
A screenshot of a form with a light blue background. The form contains the following fields:

ARRL Section	VA
Rover QTH	
Club	Richmond Amateur Telecommunications Society
mail address	ki4mcw@gmail.com

A red oval highlights the 'Club' field, and two large red arrows point towards it from the left and right sides.

* Special plague rule for 2020:
club affiliations will be listed in
QST for each station

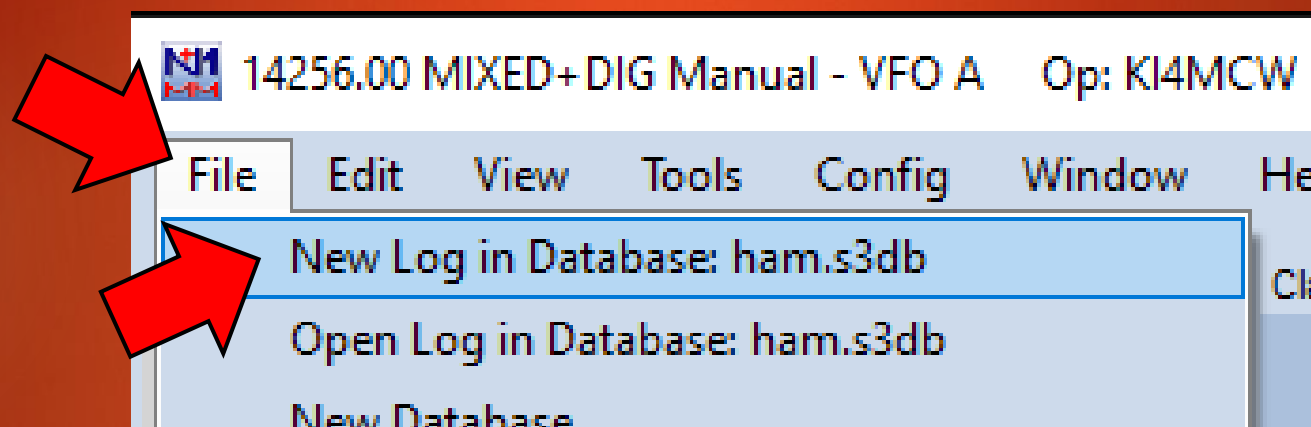
Config: The Database (12 sec)



- ▶ Just a filename (the default is fine).

Config: The Contest

(4 min)



Contest Details

ham.s3db

New log For: ARRL Field Day (June)

Log Type

Start Date

Use Up/Down cursor keys to see long description above.

Total number of contacts in database 539

Contest

Category

Operator State for Log Type QSOPARTY

Band Note - the program does not validate categories. Check the contest rules for valid categories.

Power

Mode

Overlay

Station

Assisted Time Category

Transmitter

Sent Exchange Omit RST. E.g. CQWW: 05 SS: A 56 EMA

Operators

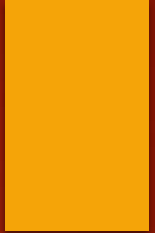
Soapbox

* Refer to the contest rules to determine the correct values for you!

Suggested values for June

- ▶ Log Type = FD (Field Day)
- ▶ Start Date = June 27, 2020 18:00 UTC (2pm EDT)
- ▶ Operator = Single-Op
- ▶ Band = All
- ▶ Power = Low (less than 150W)
- ▶ Mode = SSB+CW+Digital
- ▶ Overlay = N/A
- ▶ Station = Fixed
- ▶ Assisted = Assisted (n/a for FD)
- ▶ Time Category = N/A (n/a for FD)
- ▶ Transmitter = One
- ▶ Sent Exchange = 1D VA (one HF radio, utility power)
- ▶ Operators = your call sign (field cannot be empty)
- ▶ Soapbox = (leave empty)

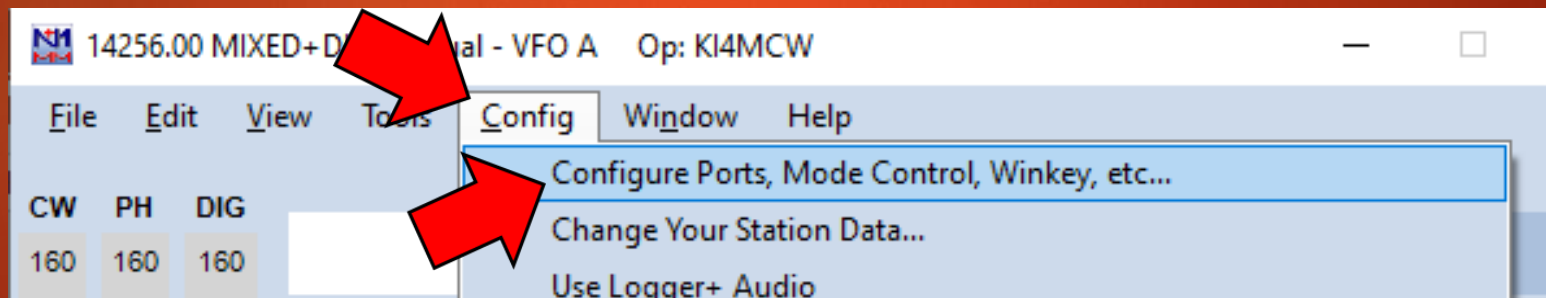
Assumes a typical setup: solo op, 100W HF, utility power



Ready to rock!

Optional Config: Rig Control (CAT or CIV)

- ▶ Allows log to automatically record frequency/band (one less thing to enter)
- ▶ Enables additional features (eg., direct frequency entry in data entry window)



- ▶ Beyond the scope of this presentation

RATS Field Day Layout

The screenshot displays the RATS Field Day software interface with the following components:

- Main Control Window (14256.00 MIXED+DIG Manual - VFO A):**
 - Menu: File, Edit, View, Tools, Config, Window, Help
 - Fields: CW, PH, DIG (160, 80, 40, 20, 15, 10)
 - Buttons: Run, S&P, F1 S&P CQ, F2 Exch, F3 Spare, F4 W4RAT, F5 His Call, F6 Spare, F7 Rpt Exch, F8 Agn?, F9 Zone, F10 Spare, F11 Spare, F12 Wipe, Esc: Stop, Wipe, Log It, Edit, Mark, Store, Spot It, QRZ
 - Text: "Heading appears here when enabled." and "Call history UserText appears here when enabled."
 - Status: Exported 538 contacts to C:\temp\W4RAT.log (528 / 1,134)
- Statistics Window (Statistics for FD - 6/22/2019 6:00:00 PM - Ba...):**
 - Buttons: Refresh, Row, Operator, Column, Band
 - Table:

Operator	1.8	3.5	7	14	21	28	Tot	Accum
AE4TC			37				37	37
K1YOR		6	2				8	45
K3OXL				28			28	73
K4GNE		3					3	76
KA4OHM			3				3	79
KD4LEM		7	35	8			50	129
KF4HVX		2	1	85			88	217
K4MCMW	1	35	3	13	2	1	55	272
KJ4NPB			15	39			54	326
KN4HVL		1					1	327
KN4OJB				23			23	350
KN4QGW		4		4			8	358
N1VCU	109			42			151	509
W4PKR					11		11	520
W4RAT		2					2	522
WD8IOS		6					6	528
Total	1	175	124	225	2	1	528	528
- Call Log Window (5/15/2020 03:32:02Z ARRL Field Day (June) - ham.s3db):**

TS	Call	Freq	Mode	Exch	Sect	Pts	Com...	Op
2019-06-23 15:11	K8PA	14191.25	USB	5A	MI	1	RATS...	KF4HVX
2019-06-23 15:12	W4ECO	14191.25	USB	3E	GA	1	RATS...	KF4HVX
2019-06-23 15:18	VA3MM	7151.20	LSB	5A	ONE	1	LAPT...	KD4LEM
2019-06-23 15:21	W8GK	7164.35	LSB	4A	WV	1	LAPT...	KD4LEM
2019-06-23 15:23	K2AA	7168.10	LSB	7A	SNJ	1	LAPT...	KD4LEM
2019-06-23 15:26	W2PJ	7176.00	LSB	1D	WNY	1	LAPT...	KD4LEM
- Network Status Window (Network Status LENNY 172.20.20.20 - 1 Stations in network):**

Computer	IP Address	Pass	Run	10	100	Freq	Op	Msg	Send	Receive	Master	Band
LENNY	172.20.20.20	0.00	S&P	0	0	14256.00	W4RAT	Ok	Ok		<input type="checkbox"/>	14
- Manual - VFO A Window:**
 - Frequency: 14256.00
 - Buttons: SH/DX, CQ
 - Vertical scale: 14250 to 14262

Useful for MULTI-MULTI

Main /
Entry

Statistics

Bandmap

Log
Data

Network

The screenshot displays a multi-window software interface. The top-left window, titled 'Manual - VFO A Op: W4RAT', features a control panel with buttons for 'F1 S&P CQ', 'F2 Exch', 'F3 Spare', 'F4 W4RAT', 'F5 His Call', 'F6 Spare', 'F7 Rpt Exch', 'F8 Agn?', 'F9 Zone', 'F10 Spare', 'F11 Spare', and 'F12 Wipe'. Below these are buttons for 'Esc: Stop', 'Wipe', 'Log It', 'Edit', 'Mark', 'Store', 'Spot It', and 'QRZ'. A status bar indicates 'Exported 538 contacts to C:\temp\W4RAT.log' with counts '528' and '1,134'. The bottom-left window, titled '5/15/2020 03:32:02Z ARRL Field Day (June) - ham.s3db', shows a table of log data with columns for 'TS', 'Call', 'Freq', 'Mode', 'Exch', 'Sect', 'Pts', 'Com...', and 'Op'. The bottom-right window, titled 'Statistics for FD - 6/22/2019 6...', displays a table of statistics with columns for 'Operator', '1.8', '3.5', '7', '14', '21', '28', 'Tot', and 'Accum'. The bottom-most window, titled 'WNY 172.20.20.20 - 1 Stations in network', shows a table with columns for 'IP Address', 'Pass', 'Run', '10', '100', 'Freq Op', 'Msg', 'Send', 'Receive', 'Master', and 'Band'. The system tray at the bottom right shows the time '11:32 PM' and date '5/14/2020'.

Operator	1.8	3.5	7	14	21	28	Tot	Accum
AE4TC			37				37	37
K1YOR		6	2				8	45
K3OXL				28			28	73
K4GNE		3					3	76
KA4OHM			3				3	79
KD4LEM		7	35	8			50	129
KF4HVX		2	1	85			88	217
K4MCMW	1	35	3	13	2	1	55	272
KJ4NPB			15	39			54	326
KN4HVL		1					1	327
KN4OJB				23			23	350
KN4QGW		4		4			8	358
N1VCU		109		42			151	509
W4PKR				11			11	520
W4RAT		2					2	522
WD8IOS		6					6	528
Total	1	175	124	225	2	1	528	528

TS	Call	Freq	Mode	Exch	Sect	Pts	Com...	Op
2019-06-23 15:11	K8PA	14191.25	USB	5A	MI	1	RATS...	KF4HVX
2019-06-23 15:12	W4ECO	14191.25	USB	3E	GA	1	RATS...	KF4HVX
2019-06-23 15:18	VA3MM	7151.20	LSB	5A	ONE	1	LAPT...	KD4LEM
2019-06-23 15:21	W8GK	7164.35	LSB	4A	WV	1	LAPT...	KD4LEM
2019-06-23 15:21	K2AA	7168.10	LSB	7A	SNJ	1	LAPT...	KD4LEM
2019-06-23 15:21	W2PJ	7176.00	LSB	1D	WNY	1	LAPT...	KD4LEM

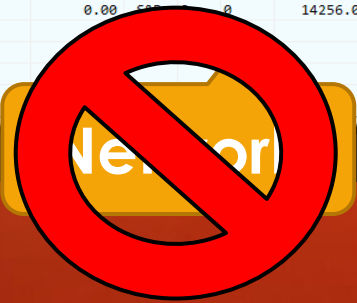
IP Address	Pass	Run	10	100	Freq Op	Msg	Send	Receive	Master	Band
172.20.20.20	0.00	S&P	0	0	14256.00 W4RAT	Ok	Ok		<input type="checkbox"/>	14

Can be simpler

Main / Entry



Log Data



Bandmap

The screenshot displays three overlapping windows from a software application. The top-left window is the 'Main / Entry' window, featuring a menu bar (File, Config, Window, Help), a control panel with 'Run' and 'S&P' buttons, and a grid of function buttons (F1-F12) for various operations like 'S&P CQ', 'Exch', 'Spare', etc. Below the buttons, it shows 'Exported 538 contacts to C:\temp\W4RAT.log' and a table of call logs. The top-right window is the 'Statistics for FD - 6/22/2019' window, showing a table of operator statistics. The bottom window is the 'Log Data' window, displaying a table of network stations.

Operator	1.8	3.5	7	14	21	28	Tot	Accum
AE4TC			37				37	37
K1YOR		6	2				8	45
K3OXL				28			28	73
K4GNE		3					3	76
KA4OHM			3				3	79
KD4LEM		7	35	8			50	129
KF4HVX		2	1	85			88	217
K4MCMW	1	35	3	13	2	1	55	272
KJ4NPB			15	39			54	326
KN4HVL		1					1	327
KN4OJB				23			23	350
KN4QGW		4		4			8	358
N1VCU		109		42			151	509
W4PKR				11			11	520
W4RAT		2					2	522
WD8IOS		6					6	528
Total	1	175	124	225	2	1	528	528

TS	Call	Freq	Mode	Exch	Sect	Pts	Com...	Op
2019-06-23 15:11	K8PA	14191.25	USB	5A	MI	1	RATS...	KF4HVX
2019-06-23 15:12	W4ECO	14191.25	USB	3E	GA	1	RATS...	KF4HVX
2019-06-23 15:18	VA3MM	7151.20	LSB	5A	ONE	1	LAPT...	KD4LEM
2019-06-23 15:21	W8GK	7164.35	LSB	4A	WV	1	LAPT...	KD4LEM
2019-06-23 15:...	K2AA	7168.10	LSB	7A	SNJ	1	LAPT...	KD4LEM
2019-06-23 15:...	W2PJ	7176.00	LSB	1D	WNY	1	LAPT...	KD4LEM

Single-Op 2 Windows

- ▶ Main window, to enter new contacts
- ▶ Log window, to see the last few entries

The screenshot displays two windows from a radio software application. The main window, titled "14256.00 MIXED+DIG Manual - VFO A Op: KI4MCW", features a menu bar (File, Edit, View, Tools, Config, Window, Help) and a control panel with various buttons (F1-F12, Esc: Stop, Wipe, Log It, Edit, Mark, Store, Spot It, QRZ). It also includes a status area with "0 spots loaded after filtering.", "528", and "1,134". Below the main window is a log window showing a list of contacts with columns for date, time, call sign, frequency, mode, and other details.

Date	Time	Call Sign	Freq	Mode	Other	Op
2019-06-23	15:11	K8PA	14191.25	USB	5A MI	1 RATS... KF4HVX
2019-06-23	15:12	W4ECO	14191.25	USB	3E GA	1 RATS... KF4HVX
2019-06-23	15:18	VA3WW	7151.20	LSB	5A ONE	1 LAPT... KD4LEM
2019-06-23	15:21	W8GK	7164.35	LSB	4A WV	1 LAPT... KD4LEM
2019-06-23	15:23	K2AA	7168.10	LSB	7A SNJ	1 LAPT... KD4LEM
2019-06-23	15:26	W2PJ	7176.00	LSB	1D WNY	1 LAPT... KD4LEM

Or maybe 3

- ▶ If you're using CAT or CIV, I recommend using the Bandmap window too

The screenshot displays two windows from a ham radio software interface. The top window, titled "14256.00 MIXED+DIG Manual - VFO A Op: W4RAT", features a menu bar (File, Edit, View, Tools, Config, Window, Help) and a control panel with a CW/PH/DIG table, a Class/Section display, and various function buttons (F1-F12, Esc: Stop, Wipe, Log It, Edit, Mark, Store, Spot It, QRZ). Below the buttons, it shows "Heading appears here when enabled." and "Call history UserText appears here when enabled." A status bar at the bottom indicates "Exported 538 contacts to C:\temp\W4RAT.log" with 528 and 1,134 values.

The bottom window, titled "5/15/2020 04:19:18Z ARRL Field Day (June) - ham.s3db", contains a contact list table:

TS	Call	Freq	Mode	Exch	Sect	Pts	Com...	Op
2019-06-23 15:11	K8PA	14191.25	USB	5A	MI	1	RATS...	KF4HVX
2019-06-23 15:12	W4ECO	14191.25	USB	3E	GA	1	RATS...	KF4HVX
2019-06-23 15:18	VA3MW	7151.20	LSB	5A	ONE	1	LAPT...	KD4LEM
2019-06-23 15:21	W8GK	7164.35	LSB	4A	WV	1	LAPT...	KD4LEM
2019-06-23 15:23	K2AA	7168.10	LSB	7A	SNJ	1	LAPT...	KD4LEM
2019-06-23 15:26	W2PJ	7176.00	LSB	1D	WNY	1	LAPT...	KD4LEM

To the right of the contact list is a bandmap window titled "Manual - VFO A" showing a frequency scale from 14252 to 14260 MHz. A yellow arrow points to the 14256 MHz mark on the scale.

Questions

Corrections,
and Additions
are welcome!



73 N GUD DX