



Contest Logger Setup

How to setup N1MM+ for CW Contests

Contest_Logger_Setup CW v1B.ppt

Topics₁

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AFS CW Rules extract

- CW: January 7th 2023
- Only the 3.5 & 7 MHz bands may be used.
- RST report plus a progressive contact serial number starting with 001 for the first contact.
- Full rules can be found here: <u>https://www.rsgbcc.org/hf/rules/2023/rafs.shtml</u>

N1MM+ OVERVIEW

N1MM+ Overview

- N1MM+ is a free contest logging tool that can be used for most contests
- N1MM+ records exactly what is required for each individual contest and scores contacts according to the contest rules
- N1MM+ helps you to avoid duplicate contacts that will waste time and not add to your score
- To do these things, it has to be set up with a new log for each contest
- N1MM+ can display several windows. We'll cover the two most important in this overview.

N1MM+ Entry Window



N1MM+ Log Window

12:24:41Z R	SGB Affiliated Societies Con	test - CW - ham.s	3db	1		—		\times
MM-DD HH:MM	▲ Call	Freq	Μ	Snt	s	Rcv	NR	Pts 🖡
01-12 17:44	M1PTR	14 <mark>02</mark> 0.00	CW	599	1	599	1	1
01-12 17:45	GØROW	14020.00	CW	599	2	599	2	1

Double click any field to edit it.

Right click an entry to get a menu for editing or deleting.

The WIPELOG command in the Entry window can be used to empty the log of all entries after testing.

SETUP

How to setup N1MM+ Assumes a Single Operator using 20m CW only without any DX Cluster assistance

Install or Update N1MM+

- If N1MM+ is not installed first follow the Full Install instructions at this link:
 - <u>https://n1mmwp.hamdocs.com/downloads/n1mm-full-install/</u>
 - Accept defaults for locations of files
- A new installation or an existing installation should be updated to the latest version of N1MM+. Start N1MM+ while connected to the internet, and select OK when this dialog box appears:

Install new version	×	
A new version: 1.0.8954 is available. Wo	ould you like to install it now?	
	OK Cancel	

Create a Database for Contests

- New installations a dialog box should appear offering option to create a new database. Best to use the default (ham.s3db) or can change e.g. *your callsign*.s3db
- Existing installations From the Entry window select File->New Database (Use an existing database ONLY if you already have one already set up)

37	20.00 CV	V Man	ual - VF	A OF									_		×
File	Edit \	∕iew	Tools	Config	Win	dow	Help							12:40	:51Z
CW						Snt		SentNR	!	Rc	v		Revd	Nr	
160										2					
80 40	• •	OR	un 🖲	S&P											
30	F1 S&F	°C0		F2 Exch		F3 5	Spare	F4	M1PTR	F	5 His C	al		F6 Spare	
20	F7 Rpt	Exch		F8 Agn?		F9 (Zone	F1	0 Spare	F	11 Spar	re		F12 Wip	0
17	Es	c: Stop		Wipe		Logi	t –	Edit	Mark	St	gre	Sg	ot R	QF	z
15	Call h	isto	ry U:	serText	ар	pear	s her	e whe	n enabl	ed.					
12															
10															
This da	This database is for: M1PTR 2 2														



Configure Station Data – Mandatory!

 If the dialog box below doesn't pop up, from the Entry window select Config -> Change Your Station Data...

	Edit Station Inf	ormation
	Call	M7HAM Tip: You need to fill out this form or the program will not perform
	Name	Ray D O Ham properly Also, make sure your computer date and time are set to
	Address	59 Down Road the LOCAL date and time zone
	Address	Offenon Tor your location.
	City	Stockport State Zip SK73TU
	Country	ENGLAND
	Grid Square	IO83HI CQ Zone 14 ITU Zone 27
Must use DX for a non US	License	Full Latitude 53.3542 N Longitude 3.3750 W V
station	Station TX/RX	ICOM 7300 Power 100W
	Antenna	20m vertical Ant. Height 7m a.s.l. 300ft
	ARRL Section	DX
	Rover QTH	
	Club	Stockport Radio Society
	Email address	rado@ham.com
		Ok <u>H</u> elp <u>Cancel</u>

Create Log for contest

From Entry window select File -> New Log in Database ham.s3db. Set station parameters:

ham.s3db		
New log For	r: CQ WPX CW	Select RSGBAFS-C from
Log Type CQV		 Coloce Rodbard-C nom
Start Date 2021	1-03-27 00:00:00	drop down
Use U	Up/Down cursor keys to see long description above.	 -
Contest Associat	led Files	Enter information
Category	Show Setup Show Rules	applicable to your station
Operator	SINGLE-OP V State for Log Type QSOPARTY	applicable to your station
Band	20M Vote - the program does	and what is allowed in
Power	LOW Vindet categories.	and what is anowed in
Mode	Ov vid categories.	the rules
Overlay	N/A V	the fules
Station	FRED V	
Assisted	NON-ASSISTED V Time Category N/A V	Future # an the Fuch an ex-
Transmitter	ONE V	Enter # as the Exchange
Sent Exchange	Omit RST, E.g. CQWW: 05 SS: A 56 EM	for AFS is incrementing
Operators	M7HAM Update Ops from Log	for Ars i.e. incrementing
Soapbox	<u> </u>	number
	OK Help Cancel	Enter the callsign you are
		using for the contest

CAT Control Setup

- CAT allows N1MM to sense and change frequency and mode
- Requires serial interface to PC
- From Entry window select Config ->Configure Ports, Mode Control, Audio, Others...

	н	ardware Fi	unctio	n Keys Dig	gital Mode:	s Othe	r Winkey	Mode Control	Antennas Scor	e Reporting	Broadcast D	ata Audio	• •
		Port		Radio		Digi	CW/Other	Details	S01	/ () so	02V ()	S02R	
Cat Port and Rig		COM5	\sim	IC-7300	~			Set	19200,N,8,2	DTR=Always	s On,RTS=A	lways On,Tx=	=1
		None	\sim	None	~			Set					
		None	\sim	None	~			Set					
		None	\sim	None	~			Set					
		None	~	None	~			Set					
		None	~	None	~			Set					
		None	~	None	~			Set					
		None	\sim	None	~			Set					
		LPT1						Set					
		LPT2						Set					
		LPT3						Set					

CAT Control Details

• Access this menu from Set button

	Com5			×
	Speed	Parity	DataBits	Stop Bits
Set these values to	 19200 ~	N ~	8 ~	1 ~
match your radio	DTR (pin 4)	RTS (pin 7)	Icom Code (he	x) Radio Nr
	Always Off \sim	Always Off \sim	94	1 ~
Note the suggested settings here	Allow ext inte Radio Polling Rate Normal V	Enable PTT via PTT via rrupts PTT via FootSwitch (p	Both Hardware Radio Comman Radio Comman Radio Comman pin 6)	& Software PTT d SSB Mode d CW Mode d Digital Mode
	Suggested Icom Se 9600 - 19200, N, 4 DTR_RTS should b Set the radio to the Set the radio CI-V T	ttings: 3, 1, Always Off, A e Always On with a same speed or aut fransceive option to	Always Off, Ico cOM port pow o-baud. o OFF.	om Hex Code ered interface.
	Help		ОК	Cancel

CW Configuration TS 590



USB to COM Adapter - FTDI

Simple COM port CW interface

Testing

 Start N1MM+ and verify that the Entry window appears with expected entry fields, bands, mode(s), and CAT control (if installed and operational).



Test Logging

Enter a dummy QSO in the Entry window

14	4020.00+0.00 CW	/ TS-590 VFO A				- 🗆 X
File	Edit View	Tools Config	Window Help	р		
cw			Snt	Rcv S	IntNR	RcvNR
160	M1PTF	۲ ۷	5 99	599	1	5
80 40	• • •	Run 🖲 S&P 24	*			
20	F1 Qrl?	F2 Exch	F3 Tu	F4 G3SHF	F5 His Call	F6 Repeat
10	F7 Spare	F8 Agn?	F9 Nr?	F10 Call?	F11 Spare	F12 Wipe
	Esc: Stop	p Wipe	Log It	Edit Mark	Store S	pot It QRZ
	Regional	Hdg 146° LP	326° 78km	49mi SR 07	7:17Z SS 17:	21Z
1	Call hist	ory UserText	appears h	ere when e	enabled.	
G: EU/I	ENGLAND, Zn 14	4			No Score	0,

Use Space Bar (preferred) or Tab to go to next field

Use Enter to enter into log

Note. Function key F12 will clear entry fields (useful as a reset after error)

Verify Log

17/02/2021 19:49:47Z CQ WPX CW - ham.s3db

DD-MM HH:MM		Call	Freq	Snt	Rcv	Sent	NR	Wpx	M1	
17-02 19:47		M1PTR	14020.00	599	599	1	5	M1	~	
17-02 19:47		M1PTR	14020.00	599	599	1	5	M1	 Image: A set of the set of the	
	14020.00+0.	00 CW TS-590 VFO A						×		
	File Edit	view Tools Config	g Window He Snt	lp Rcv	SntNF	2	RcvNR			
	160 M1P	TR	√ 599	599)	1		5		
	40	○ Run	4 ≑							
	15 F1 Q	i? F2 Exch	F3 Tu	F4 G	3SHF	F5 His Call	F6 R	lepeat		
	10 F7 Sp	are F8 Agn?	F9 Nr?	F10 (Call?	F11 Spare	F12	Wipe		
	Es	c: Stop Wipe	e Log It	Edit	Mark	Store	Spot It	QRZ		
	Regior	al Hdg 146° L	P 326° 78km	49mi S	R 07:1	7Z SS 17	: 21Z			
	Call H	istory UserTe	xt appears H	nere wh	en ena	bled.				
	G: EU/ENGLAND	Zn 14			1	No Score		0:		

Check the log matches with the information entered in the Log Entry window

OPERATIONS

Setting Frequency

- With CAT control, just verify that Entry window shows radio dial frequency and correct mode
- Without CAT control, either click band/mode at left of Entry window or enter frequency in kHz

1	4019.01+(0.00 CW 1	rs-590 v	FO A							-	-		×
File	Edit	View	Tools	Config	Window	Help	p							
cw					Snt		Rcv		SntNR			RcvNR		
160	140	950			59	9	599	Э			2			5
80	•			C2P 24	•									
40				30F 24										
15	F1 (Qri?	F2	Exch	F3 1	ū	F4 (33SHF		F5 His Ca	all	F	6 Repeat	
10	F7 S	pare	F8	Agn?	F9 N	r?	F10	Call?		F11 Spa	re	F	12 Wipe	
	E	sc: Stop		Wipe	Log It		Edit	Mark	<u>د</u>	Store	Sp	ot It	QRZ	
	Hdg 1	.46° L	P 326	5° 78km	1 49mi									
G: EU/	ENGLAN	D, Zn 14								1/1				1.8

Set Run or S&P

- Run = I will call CQ
- S&P = "Search and Pounce" I will answer CQs



Dupe Checking

- A "Dupe" is a station already worked on the current band and mode. Working a dupe doesn't add to our score.
- N1MM+ will identify a duplicate station when the call sign is entered

1	4019.01+0.00 CW T	S-590 VFO A			-	- 🗆 ×				
File	File Edit View Tools Config Window Help									
сw			Snt	Rcv	SntNR	RcvNR				
160	M1PTR	\checkmark	599	599	2					
80 40	🔵 🛑 🔾 Ru	in 🖲 S&P 24	e Dupe							
(20)			Dupe							
15	F1 Qrl?	F2 Exch	F3 Tu	F4 G3SHF	F5 His Call	F6 Repeat				
10	F7 Spare	F8 Agn?	F9 Nr?	F10 Call?	F11 Spare	F12 Wipe				
	Esc: Stop	Wipe	Log It	Edit Mar	k Store Sj	pot It QRZ				
Regional Hdg 146° LP 326° 78km 49mi SR 07:17Z SS 17:21Z										
G: EU/	ENGLAND Zn 14				1/1	1.3				

The Bandmap

- You can use the Bandmap window to return to a station you need but can't work at the moment
- Open the Bandmap window by selecting Window ->Bandmap from the Entry window
- Enter at least the call sign in the Entry window, then click "Store" to add to the Bandmap
- With CAT control, you can return to the

station by clicking on the bandmap entry





CAT Interface

- It is not uncommon during a contest that the CAT interface can lock up. Reasons are varied and include RFI or PC slow down
- If this happens a Reset button will appear in the Bandmap window
- Click on the button and a timer window appears while radio interface is reset



Submitting the Log after the contest

•A copy of the log in Cabrillo format needs to be submitted at the end of the contest in a timely manner. Check the Rules before the contest starts.

Recommended procedure

- From the Entry window select File -> Generate Cabrillo File
- Follow the instructions and note where the log is stored
- Using a browser navigate to <u>https://www.rsgbcc.org/cgi-bin/hfenter.pl</u>
- Follow the instructions and upload the log file stored above.
 Select Stockport Radio Society² from the drop down as your club

Backing Up the Log to Clublog

•A copy of the log in ADI format maybe also needed for upload to Clublog

- •Recommended procedure
 - From the Entry window select File -> Export -> Export ADIF to File->Export ADIF to File...
 - Select a directory and give the backup a unique name. Eg."M7HAM_AFS_CW_2023.ADI"
 - Using a browser navigate to https://clublog.org/upload_html5.php
 - Follow the instructions, select the file stored above and be careful to merge with (and not replace) any existing log

Final Note

• N1MM+ is thoroughly documented. The slides only covered the basic configuration to enter a contest.

Much more info is here: https://n1mmwp.hamdocs.com/

 Any member of the SRS Contest Group will be happy to assist you with N1MM+ or advise you how to prepare for a contest such as AFS

Contesting Q & A



ADDITIONAL INFORMATION Beyond the basic setup

Additional Info

- Add RBN feed for assisted operation
- Add a DX Cluster feed for assisted operation
- Using F-Keys to automate exchanges

DX Cluster

- The DX Cluster is a world wide network of connected computers where users are logged in and add "DX spots"
- A DX spot is a piece of information sent from one station to every other one logged in on the DX Cluster, in real time.
- N1MM can be configured to connect to a DX Cluster so that DX Spots appear in the bandmap as callsigns
- During a contest clicking on a callsign in the bandmap automatically sets a radio with a CAT connection to the frequency of that station and places the callsign in the Entry window

Setup DX Cluster

• Open a Telnet window from the Tools menu

Under Bands/Mode tab Select band and mode to those of interest	Telnet — × Type : Reconnect • VE7CC Clusters Bands/Modes Filters Spot Comment BandPlans • HF Mw All Modes 118 50 430 9cm
	1.5 30 430 Scin Cive and the index backs will and will and will all will be and the index backs will and will all will be assed 3.5 70 903 6cm Phone 5 144 1296 3cm RTTY 7 222 2304 1cm DIGI 10 6.4mm Contest 14 4mm 18 2.5mm 21 2mm 24 1.2mm 28 Light
Include spots only originating in: Charles and the backet. Howers the constant of pulk workload on your computer (s). G EU from prefixes or calls only Blacklisted Spots Filter (1) Edit, Import or Export Clear Blacklisted Spotters Filter (1) Edit, Import or Export Clear Preferred Spotters Enabled Help - Why don't I See Spots?	Under Filter tab select local spot origins to improve your chances of hearing the spotted station

Connect to DX Cluster

Under Cluster's tab enter your callsign and check automatic login Select the DX Cluster node from the drop down. VE7CC or GB7MBC are popular nodes Click Connect and open the node tab (e.g. VE7CC) to view the DX spots (e.g. VE7CC) to view the DX spots The DX spots (Click Connect and open the node tab (e.g. VE7CC) to view the DX spots (e.g. VE7CC) to view the DX spots (Click Connect and open the node tab (e.g. VE7CC) to view the DX spots (e.g. VE7CC) to view the DX spots (Click A spots (Click Connect and open the node tab (e.g. VE7CC) to view the DX spots (e.g. VE7CC) to view the DX spots (Click A spots (Click A spots (Click A spots (Click A spots (e.g. VE7CC) to view the DX spots (f)	Telnet –	×	Under	Cluster	tab ant	orvour	
Vetro: Vetro: Laber Late weake in the Claser Late weake in the vetroes of get to all colors of get to all color	Type:	V	Under	Clusters	lab ent	er your	
Click Connect and open the node tab (e.g. VE7CC) to view the DX spots Click Spots Click Connect and open the node tab (e.g. VE7CC) to view the DX spots Click Connect and (e.g. VE7CC) to view (the DX spots) Click Connect and (e.g. VE7CC) to view (the DX spots) Click Connect and (the Click Click Connect and (the Click C	VETCC Cluster's Bands/Modes Filters Spot Comment BandPlans Select from live Cluster List on website	callsign and check automatic login Select the DX Cluster node from					 n
Click Connect and open the node tab (e.g. VE7CC) to view the DX spots Image: Click Connect and Image: Click Connect Click Connect Click Connect Click Connect Click Connect Click Cli	Connect to VE7CC Add to Favorites		GB7M	op dowr BC are p	opular n	or	
Click Connect and open the node tab (e.g. VE7CC) to view the DX spots VE7CC Clusters Bands/Modes Filters Spot Comment BandPlans $VE7CC Clusters Bands/Modes Filters Spot Comment BandPlans$ $VE7CC Clusters Bands/Modes Filters Clusters Bands/Modes Filters Clusters Filters Clusters Filters Clusters Filters Clusters Filters Filters Clusters Filters Filte$		Telnet				Reconnect	×
	Click Connect and open the node tab (e.g. VE7CC) to view the DX spots	VE7CC Clusters 14020.2 R115 14267.0 RN3D 14225.0 IQ1Q 14035.0 JX2U 14181.0 R098 14202.0 UA3A 14260.0 MW0J 14021.9 YL3C 14016.6 YT16 14075.6 ER3R 14267.0 RN3D 14244.0 424D M7HAM de VE7CC	Bands/Modes F AN 10-Fe N 10-Fe Q/5 10-Fe S 10-Fe AE 10-Fe KU 10-Fe STESLA 10-Fe M 10-Fe X/P 10-Fe X/P 10-Fe	ilters Spot Comm eb-2021 10492 eb-2021 10507 eb-2021 10507 eb-2021 10507 eb-2021 10537 eb-2021 10537 eb-2021 10537 eb-2021 10557 eb-2021 10557 eb-2021 10557 eb-2021 10557 eb-2021 10557 common common common eb-2021 10557 eb-2021 10557 common common eb-2021 10557 common common common eb-2021 10557 common common eb-2021 10557 common common eb-2021 10557 common common eb-2021 10557 common common eb-2021 10557 common common eb-2021 10557 common eb-2021 10557 common eb-2021 common eb-2021 10557 common eb-2021 common eb-2021	tnx QSO 73! 73 Pintores ita Up 1.5TH tnx QSO CQDX SSB 56- CQ DX QSX 14016.00 TNX TNX QSO	alianos K-sMike H . TNX for QS	<r6nw> <dl1ere> <ea7irv> <f6eqd> <rt1s> <vk2yi> <iw3fft> <r1ac> <yu7af> <lu1eep> <yt1kn> <f5pmw></f5pmw></yt1kn></lu1eep></yu7af></r1ac></iw3fft></vk2yi></rt1s></f6eqd></ea7irv></dl1ere></r6nw>
BYE CONN DI/N SH/DX USERS WWV Clear NE Yes DX NE only No DX No VHF M7HAM		BYE Clear NE	CONN Yes DX	DI/N NE only	SH/DX No DX	USERS No VHF	WWV M7HAM

Using DX Cluster

Manual - VFO A

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Reverse Beacon Network

- Reverse Beacon Network is an international network of over a 100 receivers on all continents running a "Skimmer", which are aggregated in a common "feed" providing DX spots.
- As well as the Spots on the website there are a number of useful facilities including the ability to search for a particular callsign and also compare signals between up to 10 stations heard by a single reverse beacon on a given date. <u>http://www.reversebeacon.net/main.php</u>
- You can also find out what stations, from a given country or zone, have been heard, at what times and on what frequencies. You can see when you have been 'spotted', who 'spotted' you, and how loud you were.

N1MM+ RBN ACCESS

10	105.47 (CW Manu	ial - VFO	Α					_		×
File CW 60 80 40 30 20 17 15 12 10	Edit F1 F7 S	View OF Qri? Esc: Stop eading	Tools Re Re Du To Du Du Du Du Du Du Du Du Du Du Cl Tu St Re	Config escore Curr escore last l ownload an ownload an ownload an ownload an ownload an ownload an ownload an eventoad call to co une to beac pdate Call His lear Call His urn Rotor cop Rotor ebroadcast	Window ent Contest V Hours Id Install La (CW mode) Id Install lat Id Install Id Id Id Install Id	Help test Check P est N1MM L est country f nguage pack downloade band (20m - o Current Log Jpdate with (artial file (i ogger pdf (ile (wl_cty (Internet) d file 10m) J Current Lo Alt+J Ctrl+Alt+J ier Apps	master.scp) (l manual (Inte .dat) (Interne g	Internet) Ctrl+T rnet) t)	Repe 2 Wip QF	at e ZZ
			Te Pr Sa Re Cl Ra Sy	elnet Windo rogram Exe ave Window estore Wind heck for Ne adio Comm ystem Infor	w Tools cution Logg / Positions low Position w Program and Loggir mation	ging (Diagno ns Version and ng (Develop	istics folde Install er Debugg	r) ing)			

🞇 Telnet		– 🗆 X
Гуре:	Reco	onnect
GB7UJS	Clusters Bands/Modes Filters Spot Comment BandPlans	
Selec	Clusters Bands/Modes Filters Spot Comment BandPlans ct from live Cluster List on website	rites
	RU9CZZ RV0AEV-1 RW3XA-7 RW6AWT RX4HW S50DXS S55DXC	
	SKOBU-5 SKOBU-6 SK3GW-6 SK3W	

Set up The F - Keys



Save

Cancel

References

- N1MM Website <u>https://n1mmwp.hamdocs.com/</u>
- N1MM Support https://groups.io/g/N1MMLoggerPlus
- VE7CC DX Cluster <u>http://www.bcdxc.org/ve7cc/</u>
- AFS Website https://www.rsgbcc.org/hf/rules/2023/rafs.shtml
- <u>Clublog guide</u> <u>https://www.g8srs.co.uk/hf-ladder-2/</u>
- RBN Website <u>http://www.reversebeacon.net/main.php</u>

THE END