N1MM+ Usage With WSJT-X for FT8

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Briefing for CMARA FD Operators

Presented at the last CMARA Club Meeting Before Field Day

This presentation describes how to interface N1MM+ to WSJT-X For purposes of operating the FT8 mode

This is a first draft, to help prospective digital and FT8 users. Information here may be incomplete or not entirely accurate.

Reference:

https://n1mmwp.hamdocs.com/n1mmwpfiles/Download/Additional%20Support%20Files/N1MMWSJTInstructions.pdf

TOPICS: N1MM+ and WSJT-X

•Install N1MM+: Full Install, then Latest Update

•Install WSJT-X

•N1MM+ Setup: Log Database, Log, Station Information

•Configure: N1MM+

•Configure WSJT-X

TOPICS: N1MM+ Installation

•Download and Install N1MM+ Watch K8UT Video

•Software Installation – Full Install, followed by Latest Update

- •All this is necessary so that *Networking* will work properly
- •All stations *must* use same *N1MM+ software version*
- •All stations *must* use same *log database* and *log*
- •All stations *must* use same *support files:* country file, super check partial file
- Enable "*Run as Administrator*" on Desktop Icon so *Master Computer* can update Time Clock on *Slave Computers*Install *Log Database* and *Support Files* provided by FD Chairman

Software Installation – Full Install

- Refer to K8UT Video: N1MMplusDownloadAndInstall_2017.mp4
- N1MM Logger + Website <u>http://n1mm.hamdocs.com/tiki-index.php</u>
- Select "Files"
- Download and Install "N1MM+ Full Install"
 - FD Chairman will provide the Full Install to use at FD meeting or FD site
 - Install by clicking on the self-installing .exe file
 - This can also be found on the CMARA FD Thumb Drive
- Use the default directories for everything (unless...)
- After Installation
 - Right Click on N1MM+ ICON
 - Use Properties at the bottom
 - Use Compatibility Tab
 - Check: Run this program as an administrator
 - This will assure that the slave computers can have their date time clocks updated
- Full Install Only Needs to be Done ONCE!

Software Installation – Install Update

- Refer to K8UT Video: N1MMplusDownloadAndInstall_2017.mp4
- N1MM Logger + Website <u>http://n1mm.hamdocs.com/tiki-index.php</u>
- Select "Files"
- Download and Install "N1MM+ Latest Update" use latest version
 - FD Chairman will provide the latest update to use at FD meeting or FD site
 - All computers must run the SAME version of N1MM+
 - Install by clicking on the self-installing .exe file
 - This file is also on the CMARA FD Thumb Drive
- Use the default directories for everything (unless...)
- Read the manual!
 - There is plenty of documentation:
 - N1MMplus Logger Manual.pdf
 - N1MMplus Quick Start Guide.pdf
 - N1MMplus User Guide.pdf
 - N1MM References (crib sheets)
- Help Files (some are on the Internet, you will need a connection)

N1MM+ Run as Administrator

Networking requires everyone to Update Time Clocks by Master

- 1. Right Click on N1MM+ Icon
- 2. Select Properties
- 3. Enable Run as Administrator

N+IA	Open	N1MM Logger+ Pro	perties	×
	 Move to OneDrive 	Security	Details	Provious Vorniena
MRR	Open file location	General	Shortcut	Compatibility
N1MM	🗣 Run as administrator			
Logger+	Open with Sublime Text	It this program isn't working the compatibility of	ng correctly on this ve lity troubleshooter	ersion of Windows,
	Troubleshoot compatibility			
	Pin to Start	Run compatibility trou	bleshooter	
	Git Init Here	How do I choose compa	tibility settings manuall	<u>ly?</u>
	Git Bash	Compatibility mode		
		Run this program in	compatibility mode for	r:
	Scan for viruses	Windows 8		\sim
	Check reputation in KSN	THILDOWS O		
	Kaspersky Application Advisor	Callingue		
	🚔 WinMerge	- Settings	-	
	Upload using WS_FTP Upload Wizard	Reduced color mod	Je	
	Pin to taskbar	8-bit (256) color	\sim	
	Postore unviewe consistent	Run in 640 x 480 so	creen resolution	
		Disable fullscreen o	potimizations	
	Send to >	Pup this emprore a	a an administrator	
	Cut	Nun triis program as	s an administrator	
	Сору	Change high DP	'l settings	
	Create shortcut	Change settings for	or all users	
	Delete			
	Rename			
	Properties		OK Can	cel <u>A</u> pply

TOPICS: CMARA FD N1MM+ Use

•N1MM+ First Run and Setup Watch K8UT Video

•Hardware / Software Setup – different per radio and computer

•USB/RS-232 CAT Control – *Required* for Network Reporting of Rig Frequency

- •USB/RS-232 PTT / CW / FSK *Required* for Digital Voice Keyer (DVK), Auto CW, FSK RTTY
- •Computer **Sound Card Interface** *Required* for DVK & Digital Modes including FT8
- •Digital PSK/RTTY/FT8 *Required*, Soundcard Interface and *PTT* required.
- •Network Setup Open Network Status Window and Enable Networking
- •Operator Setup use CTRL+O then callsign when starting to operate use *OFF*, LUNCH, DINNER, SLEEP, etc. when leaving to indicate station is idle

N1MM+ Configuration:

- 1) Hardware CAT, PTT, FSK, CW, WinKeyer
- 2) Function Keys
- 3) Digital Modes FLDIGI, MMTTY, MMVARI, WSJT-X
- 4) Other
- 5) WinKey
- 6) Mode Control
- 7) Antennas
- 8) Score Reporting
- 9) Broadcast Data
- 10) Audio

N1MM+ Configuration: Hardware

Configuration for CAT Control, PTT, CW, FSK, WinKeyer

🞇 Configu	ırer									Х
Hardware	Functio	on Keys Digita	al Modes Ot	her Winkey	Mode Control	Antennas	Score Reporting	Broadcast	Data Audio	
Port		Radio	Digi	CW/Other	Details		○ s01v () so2v	SO2R	
COM6	~	TS-2000	~ _		Set	5760	0,N,8,2,DTR=Alwa	ys Off,RTS=/	Always Off,Tx=1	
COM7	~	None	~ 🗆		Set	DTR=	Always Off,RTS=	PTT,Tx=1		
COM41	~	None	~ 🗆		Set	DTR=	Always On,RTS=/	Always Off,T	x=1	
COM1	~	TS-2000	~		Set	5760	0,N,8,2,DTR=Alwa	ys On,RTS=4	Always Off,Tx=2	
COM2	~	None	~ 🗆		Set	DTR=	CW,RTS=PTT,Tx=2	2		
None	~	None	~ 🗆		Set					
None	\sim	None	~		Set					
None	~	None	~ 🗆		Set					1
LPT1					Set					
LPT2					Set					
LPT3					Set					
			ок	Cancel			<u>H</u> elp			
		_		L						

N1MM+ Configuration: Function Keys

🔛 Conf	igurer										×
Hardware	Function Ke	eys D	igital Modes	Other	Winkey	Mode Control	Antennas	Score Reporting	Broadcast Data	Audio	
🗌 Ser	nd leading zero	os in se	erial numbers	5	Stop se	nding CQ wher d	n callsign is				
Ser	nd cut numbers	8			ESM ser ready to	nds your call or copy received	nce in S&P, ti I exchange	hen			
🗹 Ser	nd corrected c	all befo	ore end of QS	50 E	Vork du	ipes when run	ning				
☑ Ser	nd partial calls e CW contest v	vord s	pacing	[String to us call key an (default is	e on cw be d exchange one space)	tween his key			
			1	Ľ	186	Keycode o	f Ins Key				
			AutoHotKe	ey file	222	Keycode o	f TU/Log Key	y Substitute			
Make s Config/	ure that the ke /Change SSB I	ey map Buttons	pings defined and Config/	l below i Change l	match the o Digital Butto	contents of the ons.	keys as def	ined in Config/Chan	ge CW buttons,		
CQK	ey	End	ofQSO	My	Call Key	Again	Кеу Ме	ext Call			
F1	~	F3	~	F4	`	✓ F8	~ D	isabled 🗸			
Excha	ange Key	His (Call Key	QS	D B4 Key	Cut Nu	mber Style (if enabled)			
F2	~	F5	~	F6	`	V T1234	567890 (lea	ding T) 🗸			
			ок		Cancel			Help			

N1MM+ Configuration: Digital Modes

Provides Interface from N1MM+ to Digital Mode Application Executables

M Configurer	×
Hardware Function Keys Digital Modes Other Winkey Mode Control Antennas Score Reporting Broadcast Data A	udio
Hardware Function Keys Digital Modes Other Winkey Mode Control Antennas Score Reporting Broadcast Data A Digital Interface 1 Digital Interface 2 Digital Interface 2 Di-1 MMTTY Setup (If used) MMTTY Mode: AFSK FSK Soundcard None V MMTTY Path: Select Di-2 MMTTY Mode: O AFSK FSK Parity Parity Parity MMTTY Mode: AFSK FSK Data Bits Data Bits Data Bits Stop Bits Stop Bits Stop Bits Stop Bits Flow Flow Flow V Di2 Fidigi Setup (If used) Fidigi Path: C:\Apps\FLDIGNFIdigi-3.23.12\fidigi.exe Select Di2 Fidigi Setup (If used) Fidigi Path: C:\Apps\FLDIGNFIdigi-3.23.12\fidigi.exe Select Di2 Fidigi Setup (If used) Fidigi Path: C:\Apps\FLDIGNFIdigi-3.23.12\fidigi.exe Select Di2 Fidigi Setup (If used) Fidigi Path: C:\Apps\FLDIGNFIdigi-3.23.12\fidigi.exe Select Di2 Fidigi Setup (If used)	udio
Not Set Select DI-1 MMVARI Setup DI-2 MMVARI Setup MMVARI RTTY Mode: FSKPort Image: AFSK Image: FSKPort MMVARI RTTY Mode: FSK Select Image: FSKPort Image: FSKPort Image: FSK Image: FSKPort MMVARI RTTY Mode: FSK Image: FSK Image: FSKPort MMVARI RTTY Mode: Image: FSK Image: FSK Image: FSKPort MMVARI RTTY Mode: FSK Image: FSK Image: FSKPort MMVARI RTTY Mode: Image: FSK Image: FSK Image: FSKPort MMVARI RTTY Mode: FSK Image: FSK Image: FSKPort MMVARI RTTY Mode: Image: FSK Image: FSK Image: FSKPort MMVARI RTTY Mode: FSK Image: FSK Image: FSKPort MMVARI RTTY Mode: Path to WSJT/JTDX MMVARI RTY Mode: WSJT/JTDX Path Used for SO1V,SO2V mode and Radio1 in SO2R. Command Line Params Image: C:Apps!WSJT/WSjtx.exe Select WSJT/JTDX Path Used for SO2R Radio 2 Command Line Params Not Set Not Set	ened
OK Cancel <u>H</u> elp	

N1MM+ Configuration: Other

🞇 Configurer									×
Hardware Fun	ction Keys	Digital Modes	Other Winke	y Mode Cor	trol Antennas	Score Reporting	Broadcast Data	Audio	
Letters Wav F	File Path								
{Operator}									
Primary CW S	peed Step	SSB Tuni	ing Tolerance (H	z) S	B Up/Down Arr	ow Incr (kHz)			
2		300		0.	10				
Secondary C	N Speed	CW Tunin	ng Tolerance (Hz) (1	/ & Dig Up/Dow	n Arrow Incr			
4		300		0.)2				
Repeat time in	millisecs	RTTY Tur	ning Tolerance		Jp/PgDn Incr (k	Hz)			
6000		300			.00				
Default # Spo	ts in SH/DX/	CW Weig	ght	7					
50									
Clear auto	matically po	pulated exchan	an on callsion o		lute mic on eur	ported radios			
Per Opera	tor Function	i Kev Messages	iye on cansiyn c s		heck for new i				
MorseRun	iner Mode	, noy mooolagee	-		C Cabrillo to lo	ns@supercheckpa	rtial.com		
Show tex	t cursor pos	sition in inactive	EntryWindow		Ise Reverse CV	V Radio 1			
	serial numb	her in Entry Win	dow		Ise Reverse CV	V Radio 2			
U OVCIVIL	- ochar Hann	for an entry with		_					
		OK	0.000	al		Halo			
		UK				Help			

N1MM+ Configuration: WinKey

Use if K1EL WinKeyer is used for CW/RTTY

Magnet Configurer						\times		
Hardware Function Keys Digital Modes O	Other Winkey Mode Co	ntrol Antennas	Score Reporting	Broadcast Data	Audio			
Iambic B ✓ Keying Mode ✓ Aut Pot is wired with two leads Winkey Pin 5 Function None ✓ Pin 5 Function 469 ✓ Sidetone Frequency	tospace Winkey 2/3 Sidetone Use 2 Paddle only sidetone	nd Output	Winkey Lite For WKLite, J1 ti ring is set to PTT	ip is set to CW,				
Reverse Paddles								
Reverse Paddles Winkey Speed Pot Control Winkey Speed Pot Ignore Winkey Speed Pot Enable RTTY Mode using Winkey Use Winkey Speed Pot for Paddle and Keyboard CW Only Enable RTTY Mode using Winkey 3 Lead Time (0-250) x 10 3 Tail Time (0-250) x 10 msec 0 First Character Extension (0-250) in msec 1.00 Hang Time								
ок	Cancel		<u>H</u> elp					

N1MM+ Configuration: Mode Control

Used to reconcile sound card modes and radio emission mode

Kan Configurer	×
Hardware Function Keys Digital Modes Other Winkey Mode Control Antennas Score Reporting Broadcast Data Audio	
Mode recorded in log Mode sent to radio Image: Mode sent to radio Mode sent to radio Image: Mode sent to radio Mode sent to radio Image: Mode sent to radio Mode sent to radio Image: Mode sent to radio Mode sent to radio Image: Mode sent to radio Mode sent to radio Image: Mode sent to radio Mode sent to radio Image: Mode sent to radio Mode sent to radio Image: Mode sent to radio Mode sent to radio Image: Mode sent to radio Mode sent to radio Image: Mode sent to radio Mode sent to radio Image: Mode sent to radio Mode sent to radio Image: Mode sent to radio Mode sent to radio Image: Mode sent to radio Mode sent to radio Image: Mode sent to radio Mode sent to radio Image: Mode sent to radio mode PSK Image: Mode sent to radio mode Image: Mode sent to radio Image: Mode sent to radio mode Image: Mode sent to radio Image: Mode sent to radio mode Image: Mode sent to radio Image: Mode sent to radio mode Image: Mode sent to radio Image: Mode sent to radio mode Image: Mode sent to radio	
Always use packet spot mode	
OK Cancel <u>H</u> elp	

N1MM+ Configuration: Antennas

Use if N1MM+ is used to automatically switch antennas

🞇 Config	jurer										×
Hardware	Function Keys	Digital Modes	Other	Winkey	Mode Control	Antenna	Scor	e Reporting	Broadcast Data	Audio	
Code	Antenna	Bands (1. 3.5, 7, 14,	8,)	Rotor D	escription	0	ffset	Bidirection	al		
0								[
1								[
2								[
3								[
4								[
5								[
6								[
7								[
8								[
9								[
10								[
11								[
12								[
13								[
14								[
15								[
Start N	11MM Rotor Prog	ram 🗌 Disp	lay Rotor	's Used B	y This Station	Displ	ay Rotors	; Respondin <u>c</u>) From Network		
		ОК		Cancel			ł	<u>t</u> elp			

N1MM+ Configuration: Score Reporting

Use if N1MM+ is setup to automatically report scores

🔛 Config	jurer									×
Hardware	Function Keys	Digital Modes	Other	Winkey	Mode Control	Antennas	Score Reporting	Broadcast Data	Audio	
Repo	rt Real-Time Scor	e to Server			Ex	clude band t	oreakdown			
Sco	ore Reporting Se re distributor ser	rver ver			~					
Sc	ore Reporting Us	ername	Score Re	eporting P	assword	Update In 5 🌻	terval (mins)			
		ОК		Cancel			Help			

N1MM+ Configuration: Broadcast Data

Setup UDP and TCP/IP Interface to Other Applications

🔛 Config	urer							×
Hardware	Function Keys	Digital Modes	Other Winkey	Mode Control	Antennas	Score Reporting	Broadcast Data	Audio
Select Use 12 255 in	the type of data 27.0.0.1 for the lo the low order oc	you wish to bro cal machine. U tet will broadca	adcast, and the se 12060 as the st to your curren	the IP Address(es port unless the re t subnet.	s) and port(s eceiving appl) for the receiver(s ication requires a (s) of the data. different port.	
Type of o	lata	IP Add	r:Port IP Addr:Po	t				
Applic	cation Info	127.0	.0.1:12060]
🗹 Radio		127.0 N1M	.0.1:12060 127.0 1M+ Broad	.0.1:13060 127.0 cast to HF/	.0.1:14060 AUTO a	nd ALS-130	6	
Conta	icts 📃 All Com	puters 127.0	.0.1:12080]
Spots	i	127.0	.0.1:12060]
Rotor		127.0	.0.1:12040]
Score	•	127.0	.0.1:12060]
Exter	nal Callsign Looki	up 127.0	.0.1:12060]
WSJT ar must ma commun Logging	nd JTDX UDP con tch each program ications to take p from other program	nection settings ns settings. This lace, usually do ams can also ta	: IP Address and allows UDP me ne on port 2237. ke place, usually	N1MM+ port ssage done	Receive N1MM+ Log changes m ble IP	B WSJT-X A gger needs to be nade below to ta Address	DIF Log Bro e restarted for ke effect.	padcast
on port 2	2333. Default: 223	37.				200		
Sets the connect Default p	IP Address and j to N1MM+ via TC port for JTDX is 5	port that an exte P Port for loggir 2001.	ernal program ca 1g purposes. The		able IP	0.0.1 520	CP Port 001	
		ОК	Canc	el		Help		

N1MM+ Configuration: Audio

Setup Audio Input / Output Devices

🔛 Config	jurer							>	<
Hardware	Function Keys	Digital Modes	Other Wink	ey Mode Control	Antennas	Score Reporting	Broadcast Data	Audio	
2 - Two R	adio, Output left	channel on lef	t radio, right char	nel on right radio		~			
For Ad	vanced Vo	icing Fea	tures, sele	ct "N1MM L	ogger+ /	Audio" in Co	nfig menu		
Tx Sou	nd Card Setup								
Radio 1	Output Device	Line 1 (Virtual)	Audio Cable)	V Radio 2 O	utput Device	Realtek Digital Ou	tput (Realtek High	~	
Radio	1 Output Device	is an Internal F	adio Codec 📃	Radio 2 C	utput Device	e is an Internal Radi	o Codec 📃		
Sel	ect Port to Mute		~	Select	Port to Mute		~		
Select	Message Record	ding Device	Default				~		
Select	Message Record	ding Port					~		
Record	ding Bits 1	6 🗸	Recording Sar	nple Rate 8 cording Length 3	000	~			
		ок	Can	cel		<u>H</u> elp			

N1MM+ Configuration: Master List

Setup Audio Input / Output Devices

Cont	fig Window Help		3 4
	Configure Ports, Mode Control, Audio, Other		
	Change Your Station Data		
_	Logger+ Audio Setup		
~	Use Logger+ Audio		
	Enter Sends Message (ESM mode)	Ctrl+M	
	Spot All S&P QSO's		
~	QSYing Wipes the Call & Spots QSO in Bandmap (S&P)		
	Grab Focus From Other Apps When Radio is Tuned		
	Do Not Automatically Switch to Run on CQ Frequency		
	Show Non-Workable Spots and Dupes in Bandmap		
	Reset RX Freq to TX when QSO is Logged (Run & Split)		
	Sub Receiver Always On Ctrl-	+Alt+D	
~	CQ Repeat	Alt+R	
	Set CQ Repeat Time (ms) (6000)	Ctrl+R	
	CW / PH AutoSend Threshold		
~	Enable Call History Lookup		
	Change CW/SSB/Digital Function Key Definitions		•
	Change Band Plan		•
	Manage Skins, Colors and Fonts		
	Change Operator Callsign Stored in Log	Ctrl+0	
	Change Exchange Abbreviations		+
	SO2R		+
	WAE		•
	Clear *.ini File Settings		
	SO2V Dual Receive		•

N1MM+ Configuration: Logger+ Audio

Setup Audio Input / Output Devices

🖳 Audio Setup & Monitor	—	
Monitor Playback Message Record	g	
Radios 1 & 2 Wav Set Output	Record Concatenate All *.Wav Files Before Playin Test Press Esc to End Playback	g
		< v

WSJT-X Configuration: Settings

These items need to be setup Other items optional

- 1) General Station Callsign and Maidenhead Grid
- 2) Radio Radio Type (CAT Commands), COM Port, Baudrate, PTT
- 3) Audio Audio Input and Output
- 4) TX Macros
- 5) Reporting UDP Broadcast to N1MM+ (ADIF Log Entry)
- 6) Frequencies
- 7) Colors
- 8) Advanced

WSJT-X Configuration: Settings Access Settings



WSJT-X Configuration: General

Station: Callsign, QTH, General Options

Settings				?	×
Genera <u>l R</u> adio A <u>u</u> dio Tx <u>M</u> acros	Reportin <u>a</u>	Frequencies	Colors	Advanced	
Station Details					
My Call: W1TR My Grid: FN3	1vw	AutoGrid IAR	J Region:	All 🔻	
Message generation for type 2 compound	callsign holders:	Full call in Tx3		•	ij
Display					
Start new period decodes at top			Fo	ont	
Blank line between decoding periods			Deceded	Toyt Foot	
Display dista <u>n</u> ce in miles			Decoded	Text Font	
☑ <u>T</u> x messages to Rx frequency window					
Show <u>D</u> XCC, grid, and worked-before s	status 🗌 Shov	v principal prefix i	nstead of co	ountry name	
Behavior					
Monitor off at startup	Enable VHF	/UHF/Microwave	features		
Monitor returns to last used frequency	Allow Tx fr	equency changes	while trans	mitting	
Double-click on call sets Tx enable	Single deco	ode			
Disable Tx after sending 73	Decode af	ter EME delay			
Alternate F1-F5 bindings		Tx wa	tchdog: 6	minutes 韋	
CW ID a <u>f</u> ter 73		Periodic	CW ID Inte	r <u>v</u> al: 0 韋]
			OK	Cance	1

WSJT-X Configuration: Radio

Radio: Type, CAT Port, PTT

Settings	? ×
General Radio Audio Tx Macros Rep	porting Frequencies Colors Advanced
Rig: Kenwood TS-2000 CAT Control Serial Port: Serial Port: COM6 Serial Port Parameters Baud Rate: 115200	Poll Interval: 1s PTT Method O VOX O DTR O CAT
Data Bits	Transmit Audio Source Rear_Data Mode
Default O One O Two	● None ○ US <u>B</u> ○ Data/P <u>k</u> t
Handshake Default None XON/XOFF	Split Operation None O Rig O Fake It
Force Control Lines	Test CAT Test PTT
	OK Cancel

WSJT-X Configuration: Audio

Audio: Input / Output

Settings	? ×
Genera <u>l</u> <u>R</u> adio <u>Au</u> dio <u>Tx Macros</u> <u>Reporting</u> <u>Frequencies</u> <u>Colors</u>	Advanced
Soundcard Input: VAC 2 SDR Audio Out (Virtual Audio Cable) Output: Line 1 (Virtual Audio Cable)	▼ Mono ▼ ▼ Mono ▼
Save Directory Loc <u>a</u> tion: C:/Users/TGlagowski/AppData/Local/WSJT-X - ForEW1/save	S <u>e</u> lect
AzEl Directory Location: C:/Users/TGlagowski/AppData/Local/WSJT-X - ForEW1	Select
Remember power settings by band	
Transmit Tune	
OK	Cancel

WSJT-X Configuration: TX Macros

TX Macro Definitions

Settings							?	×
General	<u>R</u> adio	A <u>u</u> dio	Tx <u>M</u> acros	Reporting	Frequencies	Colors	Advanced	
						Add	Delete	
TNX 73 G	L							
					[OK	Cancel	

WSJT-X Configuration: Reporting

Reporting Options

Settings						?	\times
Genera <u>l R</u> adio A	A <u>u</u> dio Tx <u>I</u>	<u>M</u> acros	Reporting	Frequencies	Colors	Advanced	
Logging							
Promp <u>t</u> me to log C	2SO			Op Call:			
Log automatically ((contesting on	ıly)					
Convert mode to R	UTTY .						
dB reports to com	nents						
Clear DX call and g	rid after loggi	ng					
Network Services							
Enable <u>P</u> SK Report	ter Spotting						
UDP Server							
UDP Server:	127.0.0.	1	/	Accept UDP reque	ests		
UDP Server port numb	er: 2237			Notify on accepte	d UDP requ	iest	
				Accepted UDP rec	quest restor	res window	
-N1MM Logger + Broad	casts	M			to N11		
Enable logged cont	tact ADIF broa	adcast				VIIVIŦ	
N1MM Server name or	IP address:	127.0.0.	1				
N1MM Server port nun	nber:	2333				*	
				_		,	_
					OK	Cancel	

WSJT-X Configuration: Frequencies

Frequency Band Plan

Settings						?	×
Genera <u>l</u> <u>R</u> ac	dio A <u>u</u> dio	Tx <u>M</u> acros	Reporting	Frequencies	Colors	Advanc	ed
Frequency Cal	ibration						
Slope: 0	.0000 ppm 韋	Intercept:	0.00 Hz 韋				
-Working Frequ	encies						
IARU Regior	n Mode		F	requency			^
All	WSPR			0.13	86 000 MHz	(2190m)	
All	JT65			0.13	86 130 MHz	(2190m)	
All	3Т9			0,13	86 130 MHz	(2190m)	
Region 1	FreqCal			0.	198 000 MH	Iz (OOB)	
All	JT65			0.4	174 200 MH	z (630m)	
All	JT9			0.4	174 200 MH	z (630m)	~
Station Inform Band Offse	ation		Antenna De	escription			
					ОК	Car	ncel

WSJT-X Configuration: Colors

Color Coding Options

Settings ? ×	
General Redio Audio Tx Macros Reporting Frequencies Colors Advanced	
<pre>> My Call in message [f/g unset]</pre>	
Reset Highlighting	
Highlight by Mode Rescan ADIF Log	
Users CSV file URL: https://lotw.arrl.org/lotw-user-activity.csv Fetch Now Age of last upload less than: 365 days	
OK Cancel	

WSJT-X Configuration: Advanced

Advanced Options

Settings				?	×
General Radio Audio Tx Macros JT65 VHF/UHF/Microwave decoding parame Random erasure patterns: 6 Aggressive decoding level: 0 ✓ Two-pass decoding	Reporting eters Miscel Degra Recei Tx de	Frequencies aneous de S/N of .wav file ver bandwidth: lay: e spacing x 2	Colors e: 0.0 dB 2500 H 0.2 s x 4	Advanced	
Special operating activity: Generation of	of FT8 and MSK1	44 messages			
○ Fox ○ Hound					
NA VHF Contest O ARRL Field D	ay	F	D Exch:		
EU VHF Contest ARRL RTTY F	Roundup	RTTY R	U Exch:		
			ОК	Cancel	