There have been many changes to the N1MM+ logger to ease functionality with WSJT-X and JTDX. These changes include using the Radio setup in N1MM to control the radio functions in WSJT-X or JTDX, All logging and UDP messaging done over one UDP port instead of multiple ports. I will try to show the correct setup instructions for using these new changes.

Open the main N1MM+ Config area and click on the Digital Tab. At the bottom of that tab you
will find entry windows to set the path to where WSJT-X.exe or JTDX.exe reside on your
computer. If you click the Select button it will open a file browser window and let you select the
location of the file. On the right side of the Select button there is a place to enter in Command
Line Params for Loading WSJT-X and JTDX. If you do not use the Command Line Params just
leave them set to Not Set or blank.

and and a function	n Keys Digital Modes	Other Winkey Mode Control Antennas Score Reporting Broadcast Data Audio
Digital Interface 1 TU Type	Digital Interface 2 TU Type	DI-1 MMTTY Setup (If used) MMTTY Mode: O AFSK I FSK
Winkey 🗸	Soundcard ~	
Speed	Speed	C:\Ham Radio Programs\MMTTY\MMTTY.EXE Select
~	~	DI-2 MMTTY Setup (If used)
Parity	Parity	MMTTY Mode: AFSK O FSK
~	~	MMTTY Path:
Data Bits	Data Bits	C:\Ham Radio Programs\MMTTY2\MMTTY EXE Select
~	~	
Stop Bits	Stop Bits	DI-1 Fldigi Setup (If used)
~	×	Fldigi Path:
Flow	Flow	C:\Ham Radio Programs\FldigiEngine1\fldigi.ex Select
~	~	Dl2 Fldigi Setup (If used) Fldigi Path:
		C:\Ham Radio Programs\FldigiEngine2\fldigi.ex Select
DI-1 MMVARI Set MMVARI RTTY M AFSK F Path to WSJT/JTE WS IT/JTTY Dath	up ode: FSKPort SK EXTFSK64 ~	DI-2 MMVARI Setup MMVARI RTTY Mode: FSKPort AFSK O FSK Select v mode and Redict in SO2R Command Line Parents
WSJ1/JTDX Path	Used for SUTV,SUZV	hibbe and kadio Fin SOZK. Command Line Params
C.Mam Radio Pro	iyranis\wsjtxz\biñ\Wsjt	IX.exe Select NOI Set
WSJT/JTDX Path	Used for SO2R Radio	2 Command Line Params
Canada an anna anns an anns an	grams\wsjtx21\bin\ws	sjbx.exi Select Not Set
C:\Ham Radio Pro		
C:\Ham Radio Pro		

- After entering the Path to WSJT-X or JTDX click on the Broadcast Data tab. At the bottom of that tab you will other settings for setting up the UDP and TCP ports for communications between N1MM+ and either of the 2 programs. There are different settings depending on which program you are using.
 - A. WSJT-X

when using WSJT-X by itself you will need to configure the port as is shown in the image below. You should set the IP address to 127.0.0.1 and the UDP port to 2237. You do not need to enable the second setting at all as all logging is done via the UDP port.

lware	Function Keys	Digital Modes	Other	Winkey	Mode Control	Antennas	s Score Repor	ting Broadcast Data	Audio
Selec Use 255 i	ct the type of data 127.0.0.1 for the n the low order o	a you wish to br local machine. ctet will broadc	oadcast Jse 1206 ast to yo	, and the t 30 as the j ur current	he IP Address(e port unless the r subnet.	es) and por receiving a	t(s) for the rece pplication requir	eiver(s) of the data. es a different port.	
Type of a	data	IP Add	r:Port IP	Addr:Port.					
Appli	cation Info	127.0	.0.1:120	60					
Radio)	127.0	.0.1:120	60]
Conta	acts 🔲 All Com	puters 127.0	.0.1:120	60]
Spots	3	127.0	.0.1:120	50]
Rotor		127.0	.0.1:120	40]
Scor	e	127.0	.0.1:120	60]
_ Exter	nal Callsign Looki	up 127.0	.0.1:120	60]
WSJT a must m messa 2237. L usually	and JTDX UDP co latch each progra ge communication logging from othe done on port 233	nnection setting ams settings. Th hs to take place, er programs can 33. Default: 223	s. IP Add is allows usually also tak 7.	fress and SUDP done on p e place,	port ort Enat	N1MM+ L changes ble able 127	ogger needs t made below t IP Address 7.0.0.1	to be restarted for o take effect. UDP Port 2237	
Sets th connec	e IP Address and ct to N1MM+ via T	I port that an ex CP Port for logg	ternal pro	ogram car oses. The	Enat	ole able 127	IP Address 7.0.0.1	TCP Port 52001	

B. JTDX

when using JTDX you need to configure both settings like shown below in the image. The first setting needs to be enabled and the UDP port set to 2237. The second setting also needs to be enabled with the IP Address set to 127.0.0.1 and the TCP port enabled and set to 52001. The second setting is needed for JTDX to transfer the qso information to N1MM+ upon logging the qso in JTDX.

rdware	Function Keys	Digital Modes	Other	Winkey	Mode Control	Antenn	as Score F	Reporting	Broadcast Data	Audio
Selec Use 255 i	ct the type of data 127.0.0.1 for the k in the low order of	you wish to br ocal machine. ctet will broadc	oadcast Use 1206 ast to yo	, and the t 60 as the ur current	he IP Address(e port unless the subnet.	es) and p receiving	ort(s) for the application r	receiver equires a	(s) of the data. different port.	
Type of	data	IP Add	r:Port IP	Addr:Port.						
Appli	ication Info	127.0	.0.1:120	60]
Radio	0	127.0	.0.1:120	50]
_ Conta	acts 🗌 All Comp	outers 127.0	.0.1:120	50]
Spot:	S	127.0	.0.1:120	60]
Rotor	r	127.0	.0.1:1204	40]
Scor	e	127.0	.0.1:120	50]
Exter	rnal Callsign Looku	ip 127.0	.0.1:120	50]
WSJT must m messa 2237. I usually	and JTDX UDP con natch each progra ge communication Logging from othe (done on port 233	nnection setting ms settings. Th is to take place, r programs can 33. Default: 223	is. IP Ado is allows usually also tak 7.	iress and UDP done on p e place,	port ort Enat	N1MM+ change ble able 1	Logger ner s made bel IP Address 27.0.0.1	eds to be ow to tal U 223	e restarted for ke effect. IDP Port 17	
Sets th connec Default	te IP Address and ct to N1MM+ via T(t port for JTDX is {	port that an ex CP Port for logg 52001.	ternal pro	ogram car oses. The	Enat	ole able 1	IP Address 27.0.0.1	т 520	CP Port 101	

3. Now you need to let N1MM know what mode to put your radio in while using WSJT/JTDX. This is going to be the mode that you use with your radio when you are working digital modes other than RTTY. In the N1MM main config click on the Mode tab. In the middle of that tab are 4 dropdown menu selections. One for RTTY for each radio and one for PSK and Others for each radio. Click the PSK dropdown menu and select the mode you would be using for Digital modes other than RTTY.

Configurer		×
lardware Function Keys Digital Modes	Other Winkey Mode Control Antennas Score Reporting Broadcast Data	
Mode recorded in log Use radio mode (default) Follow band plan Use contest mode or bandplan Use contest or radio mode Always: RTTY ✓	Mode sent to radio Mode Radio 1 / VFOA Radio 2 / VFOB RTTY to RTTY AFSK AFSK AFSK-R AFSK-R AFSK-R AFSK-R AFSK AFSK AFSK-R	

4. We need to configure N1MM to work for PTT. If you are using a serial port for keying you will need to make sure that port has a digital checkbox set in the hardware tab. If you plan on using Radio command for PTT then you will need to make sure the PTT settings on the radio port are set correctly. On the radio setup window there are 3 boxes that deal with PTT via radio command. PTT via Radio Command SSB Mode, PTT via Radio Command CW Mode, PTT via Radio Command Digital Mode. You need to make sure that you have placed a check in the one for use with Digital Modes.

🖞 Com3						>
Speed		Parity	D	ataBits	Stop	Bits
115200	~	N	~ 8	~	/ 1	~
DTR (pin 4)		RTS (pin 7)	lco	m Code (h	hex) Rad	lio Nr
CW	~	PTT	~ 94	1	1	~
Allow ex	t interr	pr	Tvia Rad Tvia Rad	lio Comma	and CW M	lode I Mode
Two Radio P None Radio Polling	rotoco	I FootSwit	ch (pin 6)		
Two Radio P None Radio Polling Normal	rotoco V Rate	I FootSwit	ch (pin 6)		

You have now completed the setup in N1MM+ and will need to restart for the port settings to change. Click ok to exit the Config and then restart N1MM.

Once N1MM+ has restarted and all the windows are open, in the main entry window click on the upper menu called Window. At the very bottom of that menu will be a selection that says Load WSJT-X/JTDX. Clicking this selection will now open either WSJT-X or JTDX. Once WSJT-X or JTDX has opened and is visible click on its top menu called File and then select Settings. The settings window will now open up and you will want to click on the Radio Tab. The first setting that needs to be set is the Rig Name. In this box you will choose "DX Lab Suite Commander". In the PTT Method settings you will want to choose CAT. This will allow WSJT-X or JTDX to send commands to N1MM+ on when to switch PTT Off and On. In the mode settings if your rig has certain Data Modes or PLT modes that need to be used for doing digital work select the Data/Pkt setting if not choose USB. Under the split Operation settings you can choose any of the settings but the radio interface will set the radio in split if needed or called to switch on or off.

Rig: DX Lab Suite Commander	✓ Poll Interval: 1s ↓
CAT Control	PTT Method
Network Server:	
Serial Port Parameters	● CAT ○ RTS
Baud Rate: 4800 🗸	Port: COM1 🗸
Data Bits	Transmit Audio Source
Default O Seven O Eight	🔘 Rear/Data 💿 Front/Mic
Stop Bits	Mode
Default One Two	○ None ○ USB
Handshake	
Default O None	Split Operation
O XON/XOFF O Hardware	○ None
Force Control Lines	
DTR: KTS: KTS:	Test CAT Test PTT

I have been informed on some rigs split must be off to work correctly. I am trying to figure out why.

Once you have made all the changes on the radio tab you will then need to switch to the Reporting tab. On this tab you will need to make sure the UDP Server settings are correct. The UDP Server should be set to 127.0.0.1 and the UDP Server port number should be 2237. ***** PLEASE NOTE****

The N1MM Logger+ Broadcasts settings are NO LONGER USED. Do not set any settings in these boxes...

***** PLEASE NOTE***** See the image below for correct setup.

General Radio Audi	o Tx Macros	Reporting	Frequencies	Colors	Advanced
Logging					
Prompt me to log QSO			Op Call:		Ű.
Log automatically (con	testing only)				
Convert mode to RTT					
dB reports to commen	ts				
Clear DX call and grid a	after logging				
Network Services					
Enable PSK Reporter S	potting				
UDP Server					
UDP Server:	127.0.0.1		Accept UDP reque	ests	
UDP Server port number:	2237	•	Notify on accepte	d UDP requ	Jest
			Accepted UDP rec	quest resto	res <mark>windo</mark> w
N1MM Logger + Broadcast	s				
Enable logged contact	ADIF broadcast				
N1MM Server name or IP	address:				
N1MM Server port number	: 2333				*
	1				
				OK	

This finishes all of the setting changes that need to be done for WSJT-X and JTDX to work properly together with N1MM+.

You should now be able to work qso's in WSJT-X/JTDX having the radio settings done via N1MM+ Logger and log calls directly into the database via the faster UDP connection. Another thing to note. DO NOT TRY TO LOG YOUR WSJT QSO INFORMATION INTO THE N1MM ENTRY WINDOWS! All qso's need to be handled in WSJT-X or JTDX. I would recommend minimizing the N1MM+ Entry Window while WSJT-X or JTDX are open. When you are done working qso's with either program close it down and then N1MM+ goes back to the way it normally is.