

JTDX User Guide

JTDX ©by HF Community Igor UA3DJY and Arvo ES1JA

It is modified WSJT-X software forked from WSJT-X r6462. JTDX supports JT9, JT65, T10 and FT8 digital modes for HF amateur radio communication, focused on DXing and being shaped by community of DXers. © 2016-2017 by Igor Chernikov, UA3DJY and Arvo Järve, ES1JA

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Language translations: German - DK7UY Spanish - LU9DO A User Guide to JTDX and getting on the air quickly.

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1 Foreword

This user guide is available by clicking the Help tab and selecting the Online User Guide.



These are **basic** settings that should get you on the air. This User Guide will **not** include any technical information about the decoding algorithms or maths.

There are many different configurations – and each rig is slightly different, but, by methodically going thoughthrough the settings you can set your station up to be "just right".

Assumption:

You are using the Windows operating system. These instructions are based on Windows because that is what I am using. Linux variations **should** be similar.

You have a radio and a soundcard that can be connected to your computer and radio (eg RigBlaster, Signalink etc.) Some of the newer radios have sound cards built in allowing direct input from the computer.

If you're planning on using CAT control, then you have some form of cable that connects the radio and computer to allow this to happen. Also, that you have some software that will allow for CAT control of your radio (eg Ham Radio Deluxe, DX Labs Suite, Omnirig etc).

2 Overview of FT8

This mode was developed by WSJT Development Group unter Joseph Taylor, K1JT and is fast! You need to be on your game to keep up and it is quite easy to get overcome by the speed that it all happens.

A suggestion before you "jump in" -

watch, watch and watch some more!

You can learn a lot looking at how other stations are operating, what they are doing right, and wrong. Also, become familiar with Auto Sequencing and how it works within JTDX as it IS different to WSJT-X.

There is a complete section on Auto Sequencing and it WILL help you to read it – probably a few times – to let it settle in your mind and which settings suit your style of operating.

Above all, have fun!

3 Installing JTDX

The installation of JTDX is very straightforward, you start by clicking on the instillation file, for example JTDX-18.1.0.63-win32.exe.



Mark checkbox to get an Icon on your desktop



Use a new folder for every step you install



3.1 JTDX.INI file

The JTDX.INI file is responsible for configuration settings storage, to go to the folder with this file, open File - Open log directory

File View Mode Decode Save	AutoSeq Mis	Name
Open Open next in directory Decode remaining files in directory	Ctrl+O F6 Shift+F6	save ALL.TXT
Delete all *.wav & *.c2 files in SaveD Erase ALL.TXT Erase wsjtx_loq.adi	ir	」 jt9_wisdom.dat ﷺ JTDX.ini ☐ timer.out
Open log directory	F7	inner.out wsjtx.log wsjtx_log.adi
Settings	F2	wsjtx_wisdom.dat
Exit	Alt+F4	

The Folder C:\Users\%username%\AppData\Local\JTDX containing the JTDX.INI file is created upon first run of software and will remain if software is uninstalled.

Data structure in this file may be different for various JTDX versions. JTDX.INI file compatibility with previous software version is shown in the release notes.

Upon JTDX software upgrade it is recommended to rename old JTDX.INI file, according to information from the release notes, all settings will reset to default values if this file is deleted.

This file may only be deleted if JTDX is closed, otherwise JTDX software will recover the old JTDX.INI file from the backup copy.

3.2 Desktop Shortcut Icon

If user would like to use various JTDX versions or multiple instances of the same JTDX software version simultaneously, shortcuts shall be used with '--rig-name=' key defined in the shortcut properties to run the software.

This way every instance of the running software will be using own configuration settings and log, located in the folder defined by the --rig-name= key.

Sicherheit	Details	Vorgängerversionen
Allgemein	Verknüpfung Kompatibilität	
жат 👬		
Zieltyp:	Anwendung	
Zielort:	bin	
<u>Z</u> iel:	_18_1_0_63\bin\j	tdx.exe '-rig-name=FT920

3.3 CALL3.TXT

HF CALL3.TXT file coming together with JTDX software, it contains callsign and grid data and being used for hinted decoders and detection of the false decodes.

You have to copy CALL3.TXT file in the log directory to get hinted decoders working. The latest version is for download at <u>http://jtdx.tech</u>

3.4 Logfiles

wsjtx_log.adi file is used for QSO logging, ADIF export from other logbook software can be used for JTDX if it is copied in the wsjtx_log.adi file.

Old wsjtx_log.adi and CALL3.TXT files shall be copied to the new log directory if upgrade from older JTDX software version to JTDX v18.x is performed.

4 PC Time Synchronization

It is important to keep computer synchronized -0.2...+0.5 second to the network, if every operator keeping similar time accuracy the maximum decoding performance can be achieved by JTDX software.

NTP client software shall be used for time synchronization, 5 hour time update interval would be good enough for most computers. Increased time update interval shall be used for unstable or low speed Internet connection.

Make sure there is only single NTP client software installed and running on your computer. There will be unstable time synchronization if multiple NTP clients are running simultaneously on the computer.

Make sure Windows automatic time synchronization is turned off.

nfigurierer	Sie die Internetzeiteinstellun	gen:	
a .	T		
Mit einem	Internetzeitserver synchronis	ierenj	
Serve	time.windows.com	-	Jetzt aktualisieren

Antivirus protection software and poor quality Internet connection may cause delays in the Internet packet propagation and in result of this delay wrong time synchronization. Make sure that Internet packet analyzis is turned off in the antivirus software

Various NTP client software is available on the Internet, there is just an example of settings for the NetTime Version 3.20 Alpha 1 software.

	otions						
	Hostna	me or IP Address	3	Protocol		Port Nur	mbei
Time Servers:	1.netti	me.pool.ntp.org		SNTP	~	123	
	3.netti	me.pool.ntp.org		SNTP	~	123	
	0.netti	me.pool.ntp.org		SNTP	~	123	
	2.netti	me.pool.ntp.org		SNTP	~	123	10100
					~		
Update Interval:	300	minutes 🗸					
Retry Interval:	60	seconds ~					
Demote Serv			85 .				
Demote Serv Allow other o Always p Show NetTim Start NetTime	ers afte compute provide t ne icon in e service	rr 4 failure rrs to sync to this ime (NOT recommon n the system tray e at bootup	computer mended!)				
Demote Serv Allow other o Always p Show NetTim Start NetTime	ers afte compute provide t ne icon in service 302	r 4 failure rs to sync to this ime (NOT recommon n the system tray e at bootup minutes	computer mended!)		diust Syst	em Time	

You may change the Time-Server Hostname to an NTP-Server close to your location to avoid runtime delays.

If time offset after automatic time update is greater than 100 ms, manual time update by Update now button can be used to bring time offset below the 100 ms value.

Network Time						
Time:	14.08.20	16 10:26:30				
Last Attempt:	14.08.20	16 10:20:32				
Last Sync:	14.08.20	16 10:20:33	+757ms			
Next Attempt:	4h 54m 5	6 s				
Time is synchro	onized.					
Mode: Window	s Servic	e Stop				
Individual Time Se	ervers:					
Server Name		Status	Offs	et Lag	Last E	rror
1.nettime.pool.nt	tp.org	Good	+757	'ms) 59m	s	
3.nettime.pool.nt	tp.org	Unable to R	esolve		14.08	2016 10:19:32
0.nettime.pool.nt	tp.org	Unable to R	esolve		14.08	2016 10:19:32
2.nettime.pool.nt	tp.org	Unable to R	esolve		13.08	2016 10:44:01
2.nettime.pool.ni	tp.org	Unable to R	esoive		13.00	2016 10.44.01
	020000000000					
Last Error: 14.08	.2016 10	:19:32 (All S	ervers Failed)			

If you are seeing signals on the waterfall but are not decoding any, then check your clock!

5 PC Soundcard Settings

JTDX software works with 48 kHz sampling rate and 16 bit depth audio stream. To avoid resampling and decoding performance degradation it is recommended to configure input and output (recording and playback) of audio device in the operating system using this settings.

To configure it in MS Windows 7/8/10 open audio devices:



Adjusting Soundcard Output (TX)

Choose audio device you would like to use for JTDX and go to the Properties - Advanced tab.

Sound X	
Wiedergabe Aufnahme Sounds Kommunikation Die folgenden Audiowiedergabegeräte sind installiert: Image: Communikation Image: Communikation	
Lautsprecher 2- USB Sound Device Standardgerät	
Lautsprecher MixVV RigExpert Virtual Sound Card Bereit	
Lautsprecher SoundMAX Integrated Digital Audio Standardkommunikationsgerät	
Konfigurieren Als Standard 🕶 Eigenschaften	
OK Abbrechen Übernehmen	

🕃 Eigenschaften von Lautsprecher	×
Allgemein Pegel : Frweitert	_
Lautsprecher Anderes Symbol	
Controllerinformationen	
MixW RigExpert Virtual Sound Card <u>E</u> igenschaften	
MiXW Team	
🔄 Eigenschaften von Lautsprecher	×
Allgemein Pegel Erweitert	1
Lautstärkeregelung 43	

Adjust the soundcard **Output** that the ALC of the connected Radio will not exceed the limit stated in the Radio's user manual.

It's a hard to overcome the myth that ALC should be 0 and every move of the ALC needle is evil ...

Switch off any Compressors or DSP equalizers on the radio!

Most modern rigs have a Monitor function to listen to the transmitted signal, use it to ensure your modulation is loud, but not overdriven!

If you have a friend in the neighborhood, let him have a look at your signal, but be aware that receivers could be overdriven too.

Soundcard Input (RX)

Choose the correct input device and click on Properties – Advanced.



Adjust the soundcard **Input** that the level of the JTDX Audio Input Meter will be between 30 and 50 db.



The same settings shall be applied for virtual audio cable, if it is used for SDR transceiver or Web SDR receiver connection to JTDX.

	🛶 Shuther and State 🖓 🖓	Clients Streams	14 0	Cable parameter	•	48000	■ BF		Ē	16 💌
	Set	Reset co Restart Restart Audi		Max inst 20		Stream	7 _ n buffer w ns High	atermark		Cable ran
able MS	SR range	BPS range	NC range	Stream fmt limit	Vol ctl	Chan mix	PortCls	Wmk ctl		Current
a postavo de servicio de la servicio	1800048000 1800048000	1616 1616	12	Cable range Cable range	Off Off	Off Off	Off Off	Off Off		

If there is only single sound card installed, MS Windows operating system will configure it as default audio device and some other application like Web browser or Skype may change sampling frequency of the sound card leading to the JTDX decoding performance degradation.

6 JTDX Control Panel

6.1 Waterfall Display

If the waterfall controls are missing, check if the *Controls* checkbox is enabled.

Controls	1000	1500	2000	2500	3000
					Contraction of the second second second
7:30:00 60m					
7:29:45 60m					
7:29:30 60m			a a state of the s	and the second s	
7:29:15 60m	and the second				
7:29:00 60m					and the second second second second second
7:29:00 60m					

🔄 JTDX - Wide Graph					_ X
Te Controls	1000	1500	2000	2500	3000
17:28:00 60m 17:27:45 60m		2000 - 20			
	Bins/Pixel 3 📩 Start 500 P	tz 🛨 Palette Adjust 🔽 Elette	· · · · · · · · · · · · · · · · · · ·	Spec 30 %	
	1765.20 JI9 3 VANG 4	Ingpan I Correct		Shooth 1	
These are t	he settings I pret	fer			

- Bins/Pixel = 3
- Start 500 Hz
- Palette: Digipan
- Flatten: Selected
- Waterfall Gain: 1 tick to the left

With these settings the signals between 500Hz and 3100Hz in your RTX bandwidth will be decoded.

6.2 Main Control Window

JTDX by HF community v18.1.0.62, derivative work based on WSJT-X by	w K1IT							_ 🗆 🗙
File View Mode Decode Save AutoSeg Misc Help								
UTC dB DT Fred Message Band Activit	ity	5	5,358 0	000	17:2	8:34	TX 00/30	Pwr
172715 -9 0.6 1618 ~ CQ GW3TKH IO81	GW	- 60m	•	Menus	Tx FT8 ~	Report -14	reserved	1 =
172715 -15 0.2 1723 ~ LX1NO SQ5SCU 73	SP	DX Call		DX Grid	Tx 1504 Hz	Tx=Rx	DisTX73	
172715 -15 0.2 1992 ~ CQ MMOHVU IO85	GM			/	Rx 1504 Hz			=
172715 5 -0.3 2465 ~ LA4GHA SP3JHY R-17	SP		í.	1			AutoTX	2 -
172715 -16 2.2 2522 ~ LA4GHA SP9JP J090	SP	Lookup		700	eep on	Tx/Rx Split	AutoSeq2) =
04.01.18 17:27:44 UTC 60m		UTC	dB	DT Free			equency	
172730 -14 0.1 1726 ~ SQ5SCU LX1NO 73	LX	17210 <mark>0</mark>	9 Tx	1504	1 ~ CQ D	K7UY JN49	, –	Tune
172730 0 1.0 1859 ~ CQ HB9FAX JN46	HB						-	
172730 -9 0.8 2467 ~ SP3JHY LA4GHA RRR	LA							Monitor
04.01.18 17:27:59 UTC 60m							l l	
172745 -9 0.7 1618 ~ CQ GW3TKH IO81	GW							
172745 -9 0.2 1992 ~ CQ MM0HVU IO85	GM						— I -	Stop
172745 4 -0.3 2467 ~ LA4GHA SP3JHY 73	SP						<u> </u>	
04.01.18 17:28:14 UTC 60m		Enable Tx	Halt Tx			AnsCQ	SkpGrid	-90+ -80
172800 1 1.0 1859 ~ CQ HB9FAX JN46	HB	Log QSO	Erase	[²	CQ	Grid		-70
172800 -6 0.8 2467 ~ SP3JHY LA4GHA 73	LA				dB	R+dB		-60 -50
04.01.18 17:28:29 UTC 60m		Hint	SWL mode					-40 -30
172815 -8 1.2 1618 ~ OZ7NV GW3TKH -14	GW	AGCc	Filter	R	R73	73		-20
172815 -12 0.2 1992 ~ CQ MM0HVU IO85	GM			CQ DK7UY JN4	9	•	Gen msg	-10
172815 -11 2.2 2522 ~ LA4GHA SP9JP J090	SP 🔻	Decode	Clear DX	TNX 73		- ○	Free msg	51dB
Receiving FT8 Last Tx: CQ DK7UY JN49		4/1	15			04 Jan 201	8 FT8 3252	

The Main Menu, we will go through the different points step by step.

🚸 JTDX by HF community	v18.1.0.62, derivative work based on WSIT-X by K1IT	
File View Mode Decode Save AutoSeq	Misc Help	

Receive window, here you will see all decoded messages.



Main Control Panel



Secondary Receive Window, this will show decoded signals including your callsign only. Also your transmitted messages will be shown here if selected,

UTC	dB	DT	Frea		Me	essage	Rx Frequency	
172100	Тх		1504	~	CQ	DK7UY	JN49	<u> </u>
								1
<u> </u>	,							-

Monitor panel



Function keys, moving the mouse cursor over a key will give you a short description.

Enable Tx	Halt Tx
Log QSO	Erase
Hint	SWL mode
AGCc	Filter
Decode	Clear DX

• Enable TX button

This will enable the transmission of either a generated message or a free text message



• Halt TX button

Interrupts any transmission immediately. Please allow 2 sec. before hitting the Enable TX button again.

• Log QSO button

Manually logs the actual QSO-data to the wsjtx.log and wsjtx_log.adi files

• Erase button

Left mouse button will clean up left receive window, right mouse button will clean up right receive window, any mouse button double click will clean up both windows.

• Hint button

'Hint' button activates four decoders each of them is based on the matched filters. Diagram below shows the way decoders being used in the JTDX software.



Three 'Hint' decoders use data from the CALL3.TXT file, fourth Hint decoder use data from 'DX Call' and 'DX Grid' windows.

First two 'Hint' decoders operate in wide bandwidth and focused on CQ /CQ DX messages, last two operate on QSO RX frequency and use full set of the standard messages including RO, RRR, RR73, 73: total 66 messages per each callsign from CALL3.TXT or from 'DX Call/DX Grid' windows.

This set of messages is encoded the same way software does it for message transmission, and each codeword is compared with the demodulated one using the correlation function.

Codeword set generation may take up to 20...50 seconds depending on the CPU frequency. This process is started once, and for last two 'Hint' decoders is triggered by candidate on the QSO receive frequency.

Created codeword set is allocated in the memory and any next receive interval will be decoded fast enough.

There are two thresholds used to make decision if message is decoded by 'Hint' properly: distance between first and second best codewords and absolute value of the correlation function.

There is the asterisk symbol '*' added to the decoded 'Hint' messages, to let user distinguish Hint decodes from BM/FTRSD ones. This symbol is also used to ban sending decoded 'Hint' messages to the pskreporter server http://pskreporter.info/pskmap.html , as some of them may be false decodes.

There are unavoidable false 'Hint' decodes caused by high sensitivity of the 'Hint' decoders, all of them have really existing callsigns in the decoded message. Similar to CW/SSB weak signal reception it is up to user to make own decision if received message is the wrong one.

Number of the false 'Hint' decodes depends on linearity of the receive path, signal taken from SDR receiver with digital audio stream have less false decodes, number of the false decodes will be increased if there are intermodulation products in the receive path.

• SWL button

SWL mode providing maximum decoding efficiency, but needs fast CPU

• AGCc button

Use it only if AGC being triggered in your receiver by JT signals at beginning of the RX interval. Noise level change in the waterfall might be used as criterion showing that AGC is triggered in the receiver.

• Filter button

Filter button limits JT65 signals decoding down to 400 Hz bandwidth and decoded messages output to the screen down to 100 Hz bandwidth. Filter is centered relatively to synchronization pattern (bottom frequency of JT65 green RX marker in the Wide Graph window).



400 Hz wide bandwidth is required in overcrowded band conditions to decode and subtract loud signals that have spectrum crossed with QSO frequency.

100 Hz bandwidth for letting message come to the screen allows user to focus attention close to the receive frequency of QSO.

Number of decoding attempts is redistributed to the lesser number of candidates slightly increasing probability to decode signals if 'Filter' button is used.

The Filter function with adjusted bandwidth is also available for the JT9 / T10 / FT8 modes!

• Decode button

Last receive interval or last played wav file will be decoded again if 'Decode' button is clicked.

It could be useful if user changed any combination of buttons Filter/Hint/SWL mode.

Left mouse's button double click on the Wide Graph allows to choose required frequency/JT65 signal and activates 'Decode' button. Probability to decode JT65 signal on this frequency will raise up as there is better algorithm used for QSO RX frequency.

• Clear DX button

Use it to clean DX Call DX Grid windows if data there is not required, this way you could avoid some false hinted decodes.

Message generator panel



The Status bar



7 The Settings-Menu

There are only a few **required** settings, and these, with a few optional ones, should get you started.

Start JTDX and click on File - Settings



When in the Settings menu, note the arrows in the top right corner (red circle). I will move the tab options across to select more tabbed options.

+ Settings	? ×
General Radio Audio Sequencing Tx Macros Reporting Frequencies Notifications	Filters Sched
Station Details My Cgill: DK7UY My Cgill: DK7UY	
Message generation for type 2 compound callsign holders: Full call in Tx	3 🗾
- Display	
✓ Blank line between decoding periods	Application Font
Display distance in miles	Decoded Text Font
☑ Ix messages to Rx frequency window	
Show DXCC names Show prefix not name	
Behavior	
Monitor off at startup Tx watchdog	timer Disabled 🛨
□ Decode at t = 52 s	
\Box VHF: Allow Tx frequency changes while transmitting	
✓ Monitor returns to last used frequency	
CW ID after 73 Periodic C	W ID Interyal: 0 🛨
	OK Cancel

• button will move to the beginning of the Settings-Menu.



7.1 General Settings

Station Detail

Station Details		
My C <u>a</u> ll: DK7UY	M <u>v</u> Grid: JN49be	
Message	generation for type 2 compound callsign holders: Full call in Tx3	•

These are required as JTDX will not be able to populate fields or conduct QSOs if it doesn't know who you are.

My Call : Your callsign

My Grid : your maidenhead grid in 4 or 6 character format. Only 4 characters will be transmitted.

Message generation for type 2 compound callsign holders:

As this is a basic setup just to get you started then unless you are using a compound callsign (eg PA/DK7UY/p) then it will probably best to leave at default.

When the system is working, and you want to operate from a different location/state/country etc then this will have a bearing.

Under Help – Short list of add-on prefixes and suffixes you will find a list of the prefixes and add-on's.

Help	
Online User Guide	F1
Local User Guide	
Download Samples	
Keyboard shortcuts	F3
Special mouse commands	F5
Short list of add-on prefixes and suffixes	
Copyright notice from WSJT Developmen	t Group
About JTDX	Ctrl+F1

Display

-Display		
Display		
Blank line between decoding periods		Application Font
Display distance in miles		Decoded Text Font
\blacksquare <u>T</u> x messages to Rx frequency window		
Show <u>D</u> XCC names	🔽 Show prefix not name	

Blank line between decode periods

Checking this box inserts a line between each minute decode.



Useful if there are lots of decodes as you can see at a glance where each new decode cycle started.

Display distance in miles

Checking this box displays distance to other station in miles (unchecked is kilometres) – roughly accurate.

TX messages to RX frequency window

Puts what you transmit in the right-hand window

Show DXCC names

If checked shows entity name in left-hand window

Show prefix not name

If checked shows the entities prefix not full name

151300 -5 0.9 1855 ~ CQ HB9FAX JN46 HB

Application Font

Pull down to select the font

Decode text font

Pull down to select font in decode windows

Behaviour

CW ID after 73	Periodic CW ID Inter <u>v</u> al: 0 🛨
Monitor returns to last used frequency	
\square VHF: Allow Tx frequency changes while transmitting	
Decode at t = 52 s	
Monitor off at startup	Tx watchdog timer Disabled 🗧
Behavior	
Debession	

Monitor off at startup

If un-checked will attempt to decode at the top of each minute

Decode at t = 52 s

Starts decoding at the 52 second mark of the minute (mainly used for VHF)

VHF: Allow frequency change while transmitting

Allows you to move Tx to another frequency during the Tx cycle, eg a late decoded message

Monitor returns to last used frequency

Not activated yet

CW ID after 73

Transmits your callsign in CW after sending 73

Tx watchdog timer

Stops transmit after a pre-determined number of minutes so, if you were to be called away and forget to deactivate Tx, you don't cause QRM

Periodic CW ID interval

Drop down in minutes of how often your callsign is transmitted in CW

7.2 Radio Settings

neral Radio Audio Sequencing Tx Macros	Reporting	Frequencies	Notifications	Filters	Schedi 4
9: OmniRig Rig 1 🔹 🔻 Poll In	erval: 1s 🔹				
CAT Control		PTT Method			
Serial Port:	Υ.	VOX		DTR	
Serial Port Parameters		CAT	0	RTS	
Baud Rate: 4800	*	Port: COM	8		*
Data Bits					
 Seven Eight 		Transmit Aud	dio Source		
		🖑 Rear/Da	ta 🥘) Front/Mic	
Stop Bits		-			
One 🛞 Two		Mode			
Handshake		None	O USB	0	ata/Pkt
None OXON/XOFF O Hardw	are	Split Operati	010		
Force Control Lines					
		None	Rig	() F	ake It
DTR: RTS:	*				
		Test C/	AT	Tes	tPTT
		<u></u>			
		Tx delay:	C),2s	×

This setting page is the one that causes the most headaches and heartaches, but it really isn't that difficult.

If you are already using a CAT controller for your radio, check its settings and write them down.

Rig:

If you're using Hamlib then find your radio in the list (or one very close)

If you're using Ham Radio Deluxe, then select that.

If you're using DX Lab Suite Commander then select that.

If you're using Omnirig, then select that.

If you're not using anything, then find your radio in the list and select that.

Select the CAT Control serial port parameters.

Select whichever PTT method you are using.

Select Transmit Audio Source (if available)

Temporarily leave Mode and Spilt Operation to none.

Click on **Test CAT** All being well, the button should turn green. If not, check your serial settings. Right port? Right baud?

Click on **Test PTT** Again, button should turn green and radio should key up.

A Special Note about Split Operation.

Split operation together with the CAT transceiver control is primarily used to prevent radiation of the AF signal harmonics, letting user to set AF signal level once and avoid constant control of this level if AF frequency is changed.

Split operation also allows transmitting JT65 signals in 0...500 Hz Wide Graph range and JT9 signals above 2500 Hz with no output power reduction and overload of AF path of the transmitter.

This functionality is inherited from WSJT-X, JTDX software will always be keeping transmit AF frequency within 1500...2000 Hz frequency range, TX VFO frequency is changed via CAT interface with 500 Hz step depending on the TX AF frequency on the Wide Graph.

There is simple example to gain understanding Split operation functionality:

Let's say TX VFO is set to 7076.0 KHz.

If Wide Graph TX AF frequency is set to 900 Hz, TX VFO frequency will be changed to 7075.0 KHz and software will supply transmitter with 1900 Hz AF signal.

If Wide Graph TX AF frequency is set to 2300 Hz, TX VFO frequency will be changed to 7076.5 KHz and software will supply transmitter with 1800 Hz AF signal.

TX VFO tuning step is equal to 500 Hz, it is the same for Split operation/Rig and Split operation/Fake it mode.

Split operation/Rig uses both VFO A and VFO B of transceiver, one for reception another for transmission.

Split operation/Fake it is designed to support transceivers with single VFO, in this mode VFO frequency will be changed for every transmission to/from receive transition and can be seen on radio screen for split A/B

An easy example to use for audio indication is with rig split "off"

Set out put audio to computer speaker, set volume to very low!!!!!!, in Dx window enter a callsign, then press the dB button this will activate an audio tone from computer speakers only, whilst the dummy Tx is taking place move the Tx brackets up and down the waterfall, and listen to the tone differences on the computer speakers?

7.3 Audio Settings

General	Radio	Audio	Sequencing	Tx Macros	Reporting	Frequencies	Notifications	Filters	Schedi 4
Soundca	rd								
Input:	Micropho	ne (2-USB	Audio CODEC					•	Mono 🔻
Output:	Speakers	(2- USB A	udio CODEC)					•	Mono 🔻
Save Dir	ectory								_
Location	: C <mark>:/</mark> Users	/Radio/App	oData/Local/JTD	K - 18.1.0.61/s	ave				Select
AzEl Dire	ctory								
Location	: C:/Users	/Radio/App	Data/Local/JTD	X - 18.1.0.61					Select
	smit 🥅 1		band and mode						

Select the **Soundcard Input** and **Output**.

NOTE: These are the devices associated with your radio, not the speakers in your computer.

Do **NOT** select the default Windows soundcard, as any "dings", "pops" or "tunes" generated by Windows will be transmitted through your radio. Please read the **Online Help** for full sound settings.

7.4 Sequencing



Halt TX if operator I called answered to other operator – if checked will disable TX

The other functions are disabled at the moment.

7.5 Tx Macros

General Radio Audio Tx Macros Reporting Frequencies Notifications Filters Scheduler Advanced @ TNX 73 Add Delete Add Delete Delete Image: Constraint of the state of the	e a la calenda	6-3-	Audio	Tx Macros		Firsting	N-10	etterne	Scheduler	Advanced	1
© TNX 73 FAB QSO 73 ARIGATO 73 HAPPY XMAS 73 © HNY 73 10W VERT 73 10W WET STRING TU NEWBAND 73 TU SPASIBO 73	General	Radio	AUCIO	TX Macros	Reporting	Frequencies	Notifications	Filters	Scheduler	Advanced	3
FAB QSO 73 ARIGATO 73 HAPPY XMAS 73 0 HINY 73 10W VERT 73 10W WET STRING TU NEWBAND 73 TU SPASIBO 73									Add	Delete	
ARIGATO 73 HAPPY XMAS 73 @ HNY 73 IOW VERT 73 IW WET STRING TU NEWBAND 73 TU SPASIBO 73	@ TNX	73									٦
HAPPY XMAS 73 @ HNV 73 10W VERT 73 10W WET STRING TU NEWBAND 73 TU SPASIBO 73	FAB QS	0 73									
© HNY 73 10W VERT 73 1W WET STRING TU NEWBAND 73 TU SPASIBO 73	ARIGAT	0 73									
10W VERT 73 1W WET STRING TU NEWBAND 73 TU SPASIBO 73	HAPPY	XMAS 73									
1W WET STRING TU NEWBAND 73 TU SPASIBO 73	@ HNY	73									
TU NEWBAND 73 TU SPASIBO 73	10W VE	RT 73									
TU SPASIBO 73	1W WE	T STRING									
	TU NEW	VBAND 73									
	TU SPA	SIBO 73									

Macros are used for sending frequently used messages – examples above.

To add a new message to the list, enter the desired text (up to 13 characters) in the entry field at top, then click Add.

To delete a message, click on the message and then on Delete.

7.6 Reporting

General	Radio	Audio	Sequencing	Tx Macros	Reporting	Frequencies	Notifications	Filters	Schedi 4
Logging					Externa	logbook connect	ion		
10,000	t me to log	QSO				er: 127.0.0.1			
Enable	e automatic	logging of	QSO		TCP ports	52001			
Conve	ert mode to l	RTTY				e data transfer to	external log		
🗸 dB rep	oorts to com	ments							
V Clear	DX call and g	grid after	logging						
V Clear	DX call and g	grid on ex	it						
	Services								
Enab	le eQSL seni						Enable	PSK Report	ter Spotting
eQSL tim	er, seconds	10	A. Y						
Usernam	e:								
Password	t:								
QTH Nick	name:								
UDP Ser	ver	- C							
UDP Server: 127.0.0.1 UDP Server port number: 2237			0.0.1			t UDP requests			
			r -	 V Notify on accepted UDP request Accepted UDP request restores windom 					
				1	and the special set	ted UDP request	restores window		
preve	ni spotung i	nessages	with the uncont	rmed callsigns via	UDP				

Logging

Prompt me to log QSO – if checked, popup will prompt to log QSO after sending RR73/73 Convert mode to RTTY – if checked will convert logged mode to RTTY

dB reports to comments – if checked will place received and sent dB reports into comments field of log

Clear DX call and grid after logging – if checked will clear DX call and grid after logging Clear DX call and grid on exit – if checked will clear DX and grid when exiting JTDX

External logbook connection

TCP Server: if your external logbook uses TCP enter its address here TCP port: and its TCP port here Enable data transfer to external log – if checked enables the above 2 settings

Network Services

Enable eQSL sending – if you subscribe to eQSL.cc and would like JTDX to upload your QSOs automatically then you will need to fill in the following information and check this box. Username: same as used to log into eQSL.cc

Password: same as used to log into eQSL.cc

QTH Nickname: as used on eQSL.cc

Enable PSK Reporter Spotting – if checked, will send your details and decoded reports to pskreporter.info

UDP Server

If using a program like JT-Alert (<u>www.hamapps.com</u>), you will need to copy these setting from that program.

UDP Server:

UDP Server port number:

Accept UDP requests : check if using JT-Alert

Notify on accepted UDP request : check if using JT-Alert

Accepted UDP request restores window : check if using JT-Alert

Prevent spotting callsigns with the unconfirmed callsigns via UDP : if checked, will not pass decodes marked with ? to JT-Alert

Please note

Multiple instances of JTDX requires each instances to use a different port number 2236, 2237, 2238, 2239 etc.

Using Log4OM this requires that if JT Alerts uses port "" JTDX must be set and use a different number "Log4OM uses "2236"" JTDX set to 2237?

7.7 Frequencies

Seneral	Radio	Audio	Sequencing	Tx Macros	Reporting	Frequencies	s	Notifications	Filters	Schedi 4		
Working	Frequencie	25										
Mode		Frequency				*	Reset					
WSPR			0.136 000 MHz (2190m)						Frequency Calibration			
JT65		0.136 130 MHz (2190m)						Intercept:	0.0	10 Hz 🗢		
JT9 T10 JT65 JT9		0.136 130 MHz (2190m) 0.136 130 MHz (2190m)					-	Slope:	0.0000 ppm 🚔			
		0.474 200 MHz (630m) 0.474 200 MHz (630m)										
-	495-19-76				0.474 200	VIH2 (03011)						
	Information					2300 10P-2	28.57	128				
	Band	(Offset			Antenna Des	crip	tion				

If your frequency list is blank, clicking on RESET will repopulate it with commonly agreed upon frequencies (check local regulations).

Right clicking on the lower window will allow the users antenna description to be sent to PSK reporter

e.g. 25m Long wire, 3 Element Yagi

7.8 Notifications

	Radio	Audio	Sequencing	Tx Macros	Reporting	Frequencies	Notifications	Filters Schedi
'New on	e' and 'wor	ked B4' stat	tus notifications					
Check	k and highli	ight new DX	CC 📃 per b	and 📃 and r	node 📃	Beep as well		
	The second second	ight new gri		ACAN AND ADDRESS	100 C	Beep as well		
	12.4	ight new cal	201 30	0.0		Beep as well		
	ght worked		strike	eit 📝 unde	rline it 📃	don't show it		
	and the second second	ckground co ndard mess						
cried		nual u mess	ayes	Beep	on my call	Beep on 1st dec	oded message	
Configura	tion tips					1		
73	200							
Т	Transmitted message			K1ABC				
Harameeu measage			CQ in message		Call in message	Others	standard message	
				K1ABC		K1ABC		and a message
New DXCC				KIABC		KIADC		
New		Band/Mode		D. Market				
	New G							
			-					
Ne		Band/Mode					_	
New Call				K1ABC		K1ABC		
10000	w Call on B	land/Mode						
Ne	Worked	one		K1ABC		KIABC		
Ne	worked							

Set colours to your desired settings

Please see video demonstration on www.jtdx.tech.
7.9 Filters



Hide messages from continents

Africa, Antarctica, Asia, Europe, Oceania, North America, South America – checking boxes will not display checked continents.

Hide decoded free messages – doesn't show free text messages

Show CQ messages only – display only CQ messages

Show CQ/RRR/RR73/73 messages only – display only CQ/RRR/RR73/73 messages only

These feature can relieve the stress of looking at too many decodes in the windows JTDX being focused on DX and user choice allows the user to be selective in the decodes shown, if the user wishes to contact or see contacts from ASIA only this allows that user to not be hindered by other calls, this does not stop these calls from being processed, this only does not show or show the selected items!

If the user selects any of the settings this will prevent the selected item being shown or shown in the left decodes window

If the user wishes to only see "CQ messages select CQ only"

If the user wishes to hide messages from Europe select this item

There is a video demonstration of these features on www.jtdx.tech

7.10 Scheduler

Audio	Sequencing	Tx Macros	Reporting	Frequencies	Notifications	Filters	Scheduler	Advanced
Band sch	eduler configura	ition						
hh	mm	Band	JT65+JT9	9				
	•		· •] 🗖					
•	•		•					
-	_		•					
•	•		•					
-	-		-					
Use ba	nd scheduler							
_ Use ba	nd scheduler.							

This feature is used to monitor various bands whilst the user is busy, this can be set to overnight say top band to allow a record of decodes on bands and times these bands are active for research or future contacts, in UI3 this feature has a 4 seconds tune up signal omitted on band change.

7.11 Advanced



Please see video presentation at www.jtdx.tech.

Trial and error should be considered to allow the best performance and decodes. The higher the setting the more processing power is required and the longer some decodes may take to show in the decode windows.

Number of decoding attempts "wideband" the size of the user's waterfall. Through subtractions and filters this passes or removes decoded signals to allow better processing of other signals being processed and potential decodes, default is 3. On computers with more resources this can be adjusted up or down to suit the computer. Note: see test results excel comparisons

Decoding passes: this specifies the number of passes made on the wideband signals as can be seen in the matrix picture.

Rx Frequency decode attempts: this focuses on a narrower bandwidth surrounding your Rx brackets on the waterfall, this can be set higher for trial, but may cause more resource usage.

Hinted decode range

Use frequency mask decoding: this allows for an extra 2 decoding passes and is on by default for bands that have less than 9 signals, in comparisons this showed an increased number of decodes.

T10 decoding attempts: this specifies additional attempts at decoding T10 signals, usually the default of 1 is sufficient for both.

Top decoding frequency: This feature specifies the upper limit of JT65 decoding; this was implemented for situation on busy bands where users were calling above the usual JT65-9 Blue divider mark on the waterfall.

This setting has also the facility to automatically change modes when returning a call above the grey marker on the waterfall with a buffer zone on the blue divider line being used.

See screen shot and video at www.jtdx.tech

8 The Main Menu

8.1 File



8.2 View



8.3 Mode



8.4 Decode



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8.5 Save



8.6 AutoSeq



AutoSeq in JTDX is based on QSO history data structure where all CQ messages and all messages that have user's callsign being recorded inside.

QSO history data structure will be cleaned up if band is changed, specific callsign can be cleaned up from the history using click of the right mouse's button on the Clear DX button. Also specific callsign is cleaned up from the history at 'hisCall myCall myGrid' message transmission.

AutoSeq functionality is priority based one, priorities are being ranked according to the Notifications functionality.

AutoSeq will not respond to any 'worked B4' incoming call if there is any 'new one' criterion is selected in Notifications tab of the settings. It is up to user to respond to any incoming B4 call in the manual mode of operation.

AutoSeq will be choosing signal with the best SNR while getting two or more incoming calls with equal priority or if there is not any 'new one' criterion is selected in the Notifications tab.

JTDX AutoSeq providing multiple options where user can choose the best one according to the processing power of the CPU and user's needs.

There are three alternative modes of AutoSeq operation:

AutoSeq1 - 'Call First, decoded till start of TX interval'. In this mode AutoSeq will respond to the first incoming answer to your CQ only if it is decoded before start of your next transmission. All signals being decoded during transmission will be ignored. Such approach does let to keep one message/full interval transmission, while all late decoded messages will be ignored.

AutoSeq2 - 'Call decoded till start of TX interval'. In this mode AutoSeq will be searching for any incoming call till start of TX interval, then will answer to the best one in terms of priority and/or SNR. All incoming calls decoded during message transmission will be ignored.

AutoSeq3 - 'Call based on end of decoding'. This option can be used on fast CPUs if there is wide bandwidth being used for decoding. AutoSeq will be waiting till end of decoding then will answer to the best one in terms of priority and/or SNR. In this mode AutoSeq can start transmission with previously transmitted message and may change message during transmission. User's shall be careful while selecting this option in wideband decoding mode, as any change of TX message beyond 2nd..3rd second of TX interval will decrease chances of getting this message decoded down to zero. **AutoSeq4+** - 'Call and search through CQ messages'. This option can only be used together with option 2 (AutoSeq4+2) or option 3 (AutoSeq4+3). It is searching for incoming call and if there is no then it is searching for all decoded CQ messages to select the best one in terms of priority and/or SNR and will answer to selected CQ message.

This option providing very efficient operation in terms of QSO ratio.

AutoSeq calling CQ operation depends on the logging mode. To prevent fully automatic operation AutoSeq cycle shall be broken if there is no operator's action is performed.

In autologging mode AutoSeq switches off Enable Tx button and action from user required to switch Enable TX button back on.

In 'Prompt me to log QSO' or manual logging AutoSeq will brake cycle (will switch Enable TX button off) if QSO is not logged before end of QSO (73 message is decoded).

Hence software will not let setup operate while being unattended. AutoSeq will continue cycle of operation if user accepted QSO prior to decoding of the final 73 message.

AutoSeq1 will continue to call CQ if QSO is logged before getting the final 73 message.

AutoSeq2 and 3 search for any new incoming call while receiving 73 message ending current QSO and will answer it if QSO is logged before getting the final 73 message. It will continue to call CQ if there is no any incoming call received.

AutoSeq6 and 7 search for any new incoming call while receiving 73 message ending current QSO and will answer it if QSO is logged before getting the final 73 message. It will find and answer to the best CQ message if there is no any incoming calls. AutoSeq6 and 7 will call CQ if there is no incoming calls and no any valid CQ message decoded.

'Auto RX frequency filter' option is implemented to assist users with slow CPUs, it will simply switch on Filter button when any incoming call is received or if 'hisCall myCall myGrid' message is transmitted and will handle this frequency Filter until QSO is finished. CQ message transmission and 73 message reception will trigger switching off of the Filter button. Narrow frequency filter lets user to decode signals quickly, and AutoSeq3 mode can be used together with AutoFilter on the slow CPU.

8.7 Misc



8.8 Help



F JTDX - Ke	eyboard Shortcuts		
F1	Online User's Guide		
Ctrl+F1	About WSJT-X		
F2	Open configuration window		
F3	Display keyboard shortcuts		
F4	Clear DX Call, DX Grid, Tx messages 1-5		
Alt+F4	Exit program		
F5	Display special mouse commands		
F6	Open next file in directory		
Shift+F6	Decode all remaining files in directrory		
F11	Move Rx frequency down 1 Hz		
Ctrl+F11	Move Rx and Tx frequencies down 1 Hz		
F12	Move Rx frequency up 1 Hz	C	
Ctrl+F12	Move Rx and Tx frequencies up 1 Hz	🚸 JTDX - Special	Mouse Commands
Alt+1-6	Set now transmission to this number on Tab 1		
Ctl+1-6	Set next transmission to this number on Tab 1	Click on	Action
Alt+D	Decode again at QSO frequency		
Shift+D	Full decode (both windows)	waterrali:	Set Rx frequency. Double-click to set Rx frequency and decode there.
Alt+E	Erase		Ctrl-click to set Rx and Tx frequencies.
Ctrl+F	Edit the free text message box		Unlocked TX=RX:
Alt+G	Generate standard messages		use left button to set RX frequency
Alt+H	Halt Tx		use right button to set TX frequency
Ctrl+L	Lookup callsign in database, generate standard messages	Decoded text:	Double-click to copy second callsign to Dx Call,
Alt+M	Monitor		locator to Dx Grid; change Rx and Tx frequencies to
Alt+N	Enable Tx		decoded signal's frequency; generate standard messages.
Alt+Q	Log QSO		If first callsign is your own, Tx frequency is not
Alt+S	Stop monitoring		changed unless Ctrl is held down when double-clicking.
Alt+T	Tune	Erase button:	Click to erase QSO window.
Alt+V	Save the most recently completed *.wav file		Double-click to erase QSO and Band Activity windows.

1A	15	ЗA	3B6	3B8	3B9	3C	3C0	3D2	3D2C	3D2R	3DA	3V	ЗW	3X
ЗY	3YB	3YP	4J	4L	4S	4U1I	4U1U	4W	4X	5A	5B	5H	5N	5R
5T	5U	5V	5W	5X	5Z	6W	6Y	70	7P	7Q	7X	8P	8Q	8R
9A	9G	9H	9J	9K	9L	9M2	9M6	9N	9Q	9U	9V	9X	9Y	A2
A3	A4	A5	A6	A7	A9	AP	BS7	BV	BV9	BY	C2	C3	C5	C6
C9	CE	CEOX	CEOY	CEOZ	CE9	CM	CN	CP	CT	CT3	CU	CX	CYO	CY
D2	D4	D6	DL	DU	E3	E4	EA	EA6	EA8	EA9	EI	EK	EL	EP
ER	ES	ET	EU	EX	EY	EZ	F	FG	FH	FJ	FK	FKC	FM	FO
FOA	FOC	FOM	FP	FR	FRG	FRJ	FRT	FT5W	FT5X	FT5Z	FW	FY	М	MD
MI	MJ	MM	MU	MW	H4	H40	HA	HB	HB0	HC	HC8	HH	HI	HK
HKOA	HKOM	HL	HM	HP	HR	HS	HV	HZ	I	IS	ISO	J2	J3	J5
J6	J7	J8	JA	JDM	JDO	JT	JW	JX	JY	K	KG4	KH0	KH1	KH
КНЗ	KH4	KH5	KH5K	KH6	KH7	KH8	KH9	KL	KP1	KP2	KP4	KP5	LA	LU
LX	LY	LZ	OA	OD	OE	OH	OH0	OJ0	OK	OM	ON	OX	OY	ΟZ
P2	P4	PA	PJ2	PJ7	PY	PYOF	PTOS	PYOT	PZ	R1F	R1M	SO	S2	S 5
S7	S9	SM	SP	ST	SU	SV	SVA	SV5	SV9	T2	T30	T31	T32	Т3
T5	T 7	T8	T9	TA	TF	TG	TI	TI9	TJ	TK	TL	TN	TR	TT
TU	TY	TZ	UA	UA2	UA9	UK	UN	UR	V2	V3	V4	V5	V6	V7
V8	VE	VK	VKOH	VKOM	VK9C	VK9L	VK9M	VK9N	VK9W	VK9X	VP2E	VP2M	VP2V	VP
VP6	VP6D	VP8	VP8G	VP8H	VP80	VP8S	VP9	VQ9	VR	VU	VU4	VU7	XE	XF
XT	XU	XW	XX9	XZ	YA	YB	YI	YJ	YK	YL	YN	YO	YS	YU
YV	YVO	Z2	Z3	ZA	ZB	ZC4	ZD7	ZD8	ZD9	ZF	ZK1N	ZK1S	ZK2	ZK
ZL	ZL7	ZL8	ZL9	ZP	ZS	ZS8	KC4	E5						

9 Merging internal logbook from WSJT-X with JTDX

The logs are stored at "C:\Users\%Username%\AppData\Local\WSJT-X" and "C:\Users\%Username%\AppData\Local\JTDX" folders.

The %Username% stands for your Windows login name.

atei <u>B</u> earbeiten <u>Ansicht</u> Extras	2					
Organisieren 👻 🎒 Öffnen 🛛 I	Neuer Ordner				(EE 🕶	6
🎳 Windows 🔷	Name	Änderungsdatum	Тур	Größe		
🍶 wsjt	save	08.12.2017 11:00	Dateiordner			
🎍 xampp	ALLIXT	14.12.2017 22:54	Textdokument	2.703 KB		
🎍 xampp.000	CALL3.TXT	14.06.2017 12:42	Textdokument	517 KB		
🍌 xampp.001	it9 wisdom.dat	14.12.2017 22:54	DAT-Datei	30 KB		
DRIVE-N-GO (E:)	JTDX.ini	14.12.2017 22:54	Konfigurationsein	11 KB		
DRUVE-IN-GO (E) BD-ROM-Laufwerk (F:) Siedl KINGSTON (E) video (\\NAS-SERVER) (U:) dS (\\192168.2.44) (X:)	itdx_dq5r_log.adi	25.11.2017 19:24	ADI-Datei	19 KB		
	imer.out	14.12.2017 22:54	OUT-Datei	1 KB		
	wsjtx.log	14.12.2017 21:47	Textdokument	564 KB		
	🖹 wsjtx_log.adi	14.12.2017 21:47	ADI-Datei	1.495 KB		
😪 c\$ (\\192.168.2.44) (Y:)	wsjtx_wisdom.dat	14.12.2017 22:54	DAT-Datei	1 KB		
public (\\NAS-SERVER) (Z:) Meine Websites auf MSN						
Meine websites aut MSN						
👊 Netzwerk						
INCLUYO2						
NAS-SERVER						
1- INAS-SERVER						

Once you did a clean installation of JTDX all you have to do is to copy the wsjtx.log and wsjtx_log.adi files into the JTDX folder.

Please check that both files are not existing in the JTDX folder before you copy them or any QSO data stored in the JTDX log would be lost!

The files have the same structure in both programs.

If you used JTDX and WSJT-X parallel on one or different PC's, you will find the logfiles in both directories. In this scenario you have to merge the WSJT-X log into the JTDX files manually using a simple text editor. This is a two step task.

Close JTDX or WSJT-X programs if they are running.

First open up the wsjtx.log file in the WSJT-X folder.

🗐 wsjtx.log - Editor	x
Datei Bearbeiten Format Ansicht ?	
2016-Mr z-15,14:13,VR2WMT,14,080707,JT9,-02,+00,,L 2016-Mr z-15,14:13,VR2JBC,FN73,14,080697,JT9,-16,-18,,L 2016-Mr z-15,14:48,H57/MU,NK91,14,080960,JT9,-16,-16,,L 2016-Mr z-24,12:15,JA1XBX,PM95,14,080988,JT9,-16,-01,,L 2016-Mr z-24,13:59,FW65Z,K045,21.081053,JT65,-05,-06,,L 2016-Mr z-24,13:59,N4CE,FM06,21.080165,JT65,-05,-06,,L 2016-Mr z-24,14:17,WD46BW,FM17,21.080166,JT65,-08,-04,,L 2016-Mr z-24,14:17,WD46BW,FM17,21.080166,JT65,-10,-12,,L 2016-Mr z-24,18:35,K80PPQ,EM29,18.103446,JT65,-10,-12,,L 2016-Mr z-24,18:35,K80PPQ,FM29,18.103446,JT65,-16,-16,,L,L 2016-Mr z-24,18:47,V75FRD,FK06,18.103628,JT65,-19,-13,,L 2016-Mr z-24,21:04,HA6Z8,KN07,1.840002,JT65,-17,-13,,L 2016-Mr z-24,21:04,HA6Z8,KN07,1.840001,JT65,-13,-13,,L 2016-Mr z-24,21:04,HA6Z8,KN07,1.840001,JT65,-12,-06,,L	•
 III 	•

JTDX User Guide - by David, VK7YUM - Version 2018-01-08 Additional chapters by Igor, UA3DJY and Wolfgang, DK7UY Mark everything by pressing Ctrl-a and copy to the clipboard with Ctrl-c.

<u>D</u> atei <u>B</u> earbeiten	F <u>o</u> rmat	<u>A</u> nsicht	2			
2017-12-06,19						
2017-12-06,19 2017-12-07,15						
2017-12-07,15						
2017-12-07,15						
2017-12-07,15 2017-12-07.15						
2017-12-07,15						
2017-12-07,15						
2017-12-07,17 2017-12-07,17						
2017-12-07.18						
2017-12-07,20						
						-
4						

Now open the wsjtx.log file in the JTDX folder and scroll to the end of the file.

📄 wsjtx.log - Editor	
Datei Bearbeiten Format Ansicht ?	
2017-Dez-14,16:42,2017-12-14,16:43:59,SP3FKQ,J090,5.359669,FT8,+03,-04,,, 2017-Dez-14,16:49,2017-12-14,16:50:S9,SP3WL,J072,5.359700,FT8,-15,-06,,, 2017-Dez-14,17:02,2017-12-14,17:06:50,SP3FKQ,J090,5.361342,JT65,-01,-01,,, 2017-Dez-14,17:25,2017-12-14,17:25:29,0F3P0,KP10,010,138853,FT8,-02,-16,,, 2017-Dez-14,17:37,2017-12-14,17:35:15,SQ90UM,J090,10.138853,FT8,-21,-04,,,, 2017-Dez-14,17:37,2017-12-14,17:39:15,SQ90UM,J090,10.13873,FT8,-02,-16,,, 2017-Dez-14,17:37,2017-12-14,17:39:15,SQ90UM,J090,10.13873,FT8,-02,-05,,, 2017-Dez-14,18:43,2017-12-14,18:44:14,SP30K5,J092,5.360268,FT8,-02,-05,,, 2017-Dez-14,18:44,2017-12-14,18:44:14,SP30K5,J092,5.360268,FT8,-02,-05,,, 2017-Dez-14,18:44,2017-12-14,18:50:29,D12WK,J5,35973,FT8,-01,-12,.,, 2017-Dez-14,19:40,2017-12-14,19:41:44,G0UND,I093,5.359090,FT8,-01,-08,,,, 2017-Dez-14,19:40,2017-12-14,9:41:44,G0UND,I093,5.350400,FT8,-04,.,, 2017-Dez-14,19:40,2017-12-14,9:51:14,MG0VX,I093,5.360005,FT8,-04,.,, 2017-Dez-14,20:46,2017-12-14,20:47:59,F5CT,JN08,1.843022,FT8,-11,-08,,,,	~
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Place the cursor into the last, empty line and press Ctrl-v. The datasets will be appended to the JTDX log, it is not necessary to get them sorted in any way. Don't forget to save the file.

Second the wsjtx_log.adi files have to be merged in a similar way.

Open the wsjtx_log.adi into the text editor.

<pre>Date Bearbeiten Fgrmat Ansicht ? (%SIT-X ADIF Export=colb) <call:5>bK70G <griddsquare:4>J062 <mode:3>FT8 <rst_sent:3>- <call:5>L83AH <griddsquare:4>J082 <mode:3>FT8 <rst_sent:3>- <call:5>L83AH <griddsquare:4>J053 <mode:3>FT8 <rst_sent:3>- <call:5>L83AH <griddsquare:4>J059 <mode:3>FT8 <rst_sent:3>- <call:5>L83AH <griddsquare:4>L94D9 <mode:3>FT8 <rst_sent:3>- <call:5>L94D <griddsquare:4>L94D9 <mode:3>FT8 <rst_sent:3>- <call:5>L94D <griddsquare:4>L94D9 <mode:3>FT8 <rst_sent:3>- <call:5>U15D91A2 <griddsquare:4>L94D9 <mode:3>FT8 <rst_sent:3>- <call:5>U16D91D2 <griddsquare:4>L94D9 <mode:3>FT8 <rst_sent:3>- <call:5>D91D2 <griddsquare:4>L94D9 <mode:3>FT8 <rst_sent:3>- <call:5>D91D2 <griddsquare:4>L94D9 <mode:3>FT8 <rst_sent:3>- <call:5>D91AA <griddsquare:4>L94D9 <mode:3>FT8 <rst_sent:3>- <call:5>D91AA <griddsquare:4>L94D1 <mode:3>FT8 <rst_sent:3>- <call:5>D91AA <griddsquare:4>L94D3 <mode:3>FT8 <rst_sent:3>- </rst_sent:3></mode:3></griddsquare:4></call:5></rst_sent:3></mode:3></griddsquare:4></call:5></rst_sent:3></mode:3></griddsquare:4></call:5></rst_sent:3></mode:3></griddsquare:4></call:5></rst_sent:3></mode:3></griddsquare:4></call:5></rst_sent:3></mode:3></griddsquare:4></call:5></rst_sent:3></mode:3></griddsquare:4></call:5></rst_sent:3></mode:3></griddsquare:4></call:5></rst_sent:3></mode:3></griddsquare:4></call:5></rst_sent:3></mode:3></griddsquare:4></call:5></rst_sent:3></mode:3></griddsquare:4></call:5></rst_sent:3></mode:3></griddsquare:4></call:5></rst_sent:3></mode:3></griddsquare:4></call:5></rst_sent:3></mode:3></griddsquare:4></call:5></rst_sent:3></mode:3></griddsquare:4></call:5></rst_sent:3></mode:3></griddsquare:4></call:5></rst_sent:3></mode:3></griddsquare:4></call:5></rst_sent:3></mode:3></griddsquare:4></call:5></rst_sent:3></mode:3></griddsquare:4></call:5></rst_sent:3></mode:3></griddsquare:4></call:5></rst_sent:3></mode:3></griddsquare:4></call:5></rst_sent:3></mode:3></griddsquare:4></call:5></rst_sent:3></mode:3></griddsquare:4></call:5></pre>	🔄 wsjt	tx_log.adi - Ed	litor		-	Bastletis				
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Mark the first line stating "WSJT-X ADIF Export<eoh>" only and delete it.

Mark the data left by pressing Ctrl-a and copy to the clipboard with Ctrl-c again.

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Now open the wsjtx_log.adi file in the JTDX folder and scroll to the end of the file.

Place the cursor into the last, empty line and press Ctrl-v. Save the wsjtx_log.adi in the JTDX folder and you are done.

Start JTDX and enjoy the colouring of the contacts now also including the ones done in WSJT-X before.

10 Supported 3. Party Programs

JT-Alert (www.hamapps.com)

Provides several audio and visual alert types based on decoded Callsigns.

- Audio and visual alerts for several alert conditions
 - Your Callsign decoded (someone calling you)
 - CQ & QRZ
 - Wanted Callsign
 - Wanted Prefix (by Ban/Mode)
 - Wanted Grid (by Band/Mode)
 - Wanted US State (by Band/Mode)
 - Wanted DXCC (by Band/Mode)
 - Wanted CQ Zone (by Band/Mode)
 - Wanted Continent (by Band/Mode)
 - Wanted CQ Marathon (by Band/Mode)
- Automatic logging to these log types when QSO is logged
 - DXLab DXKeeper
 - ACLog
 - Log4OM
 - HRD Log V5
 - Standard ADIF 2.2 file
 - MixW CSV file

There are many more features to this program that will make your using JTDX more pleasurable. Well worth the download. (Only available on Windows platform)

Loggers

There are a plenty of different logging programs available and it is far beyond the scope of these instructions to attempt to walk you through setting up any.

However, the JTDX support forum (<u>https://groups.yahoo.com/neo/groups/JTDX/info</u>) has many users and quite possibly one has a similar setup to you and can help with settings etc.

PSK Reporter

By Philip Gladstone, is a web server that gathers reception reports sent by various other programs, including *JTDX*.

The information is made available in near real time on a world map, and also as statistical summaries of various kinds. A number of options are available to the, you can request a map showing world-wide FT8 activity on all amateur bands over the past hour for example.

This map shows the stations I worked on 60m in the night from 16./17. November 2016.



11 JTDX on the Web.

JTDX Support Group

https://groups.yahoo.com/neo/groups/JTDX/info

JTDX official website (Downloads, Changelogs, FAQ's, Videos, ...) http://jtdx.tech

JTDX YouTube channel https://www.youtube.com/channel/UCWxuJrtNLRh-CLgVqCA0XVw