



FT8/FT4
Wsjt-x improved
GridTracker
MacLoggerDX

Perusteet ja käyttö, vol.2

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Huhtikuu 2024

Muutama perusasia alkuun

FT8 alkuun pääsemiseksi on jo valmis materiaali OH8AA arkistoissa. Lukekaa se.

Tarvitaan siis PC ja interface radioon

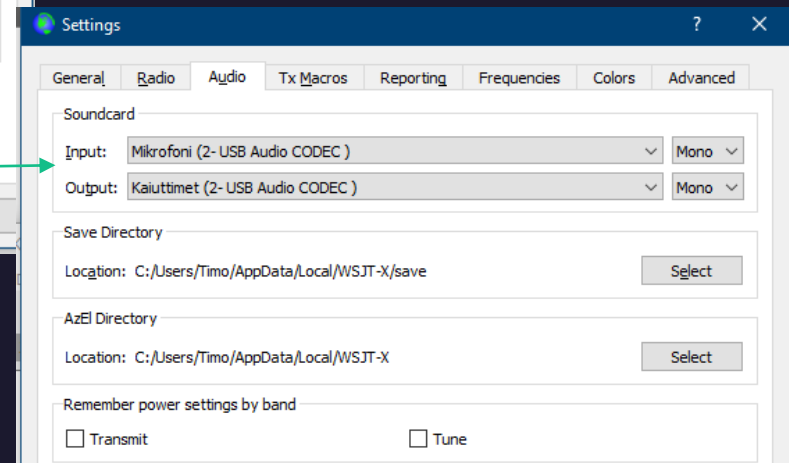
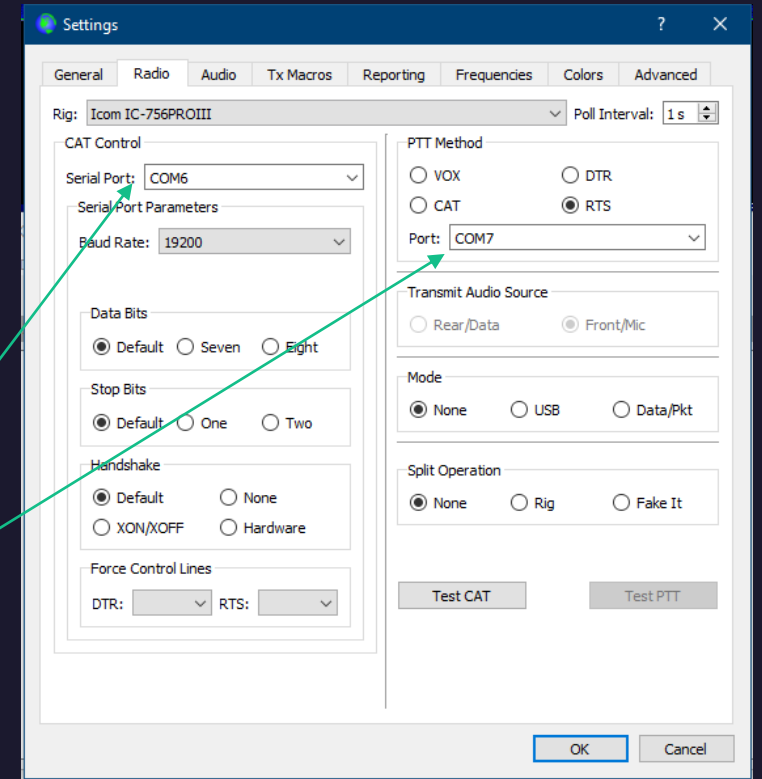
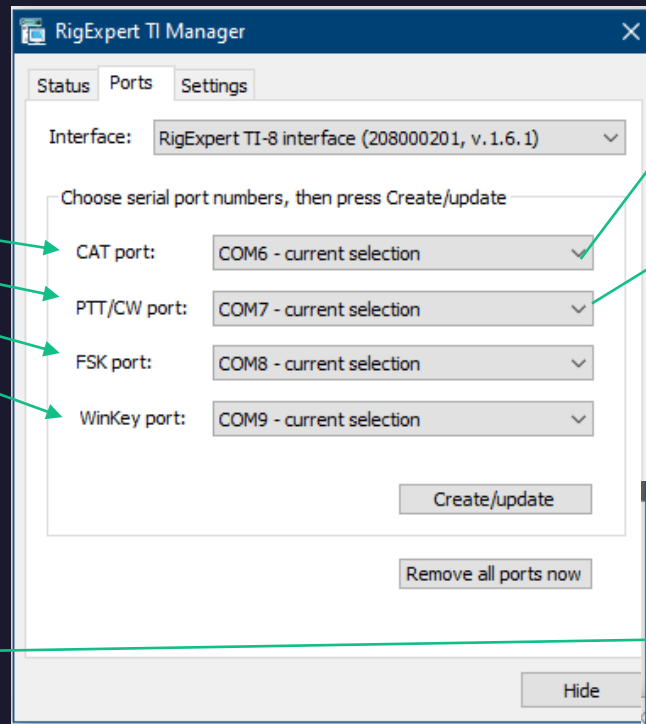
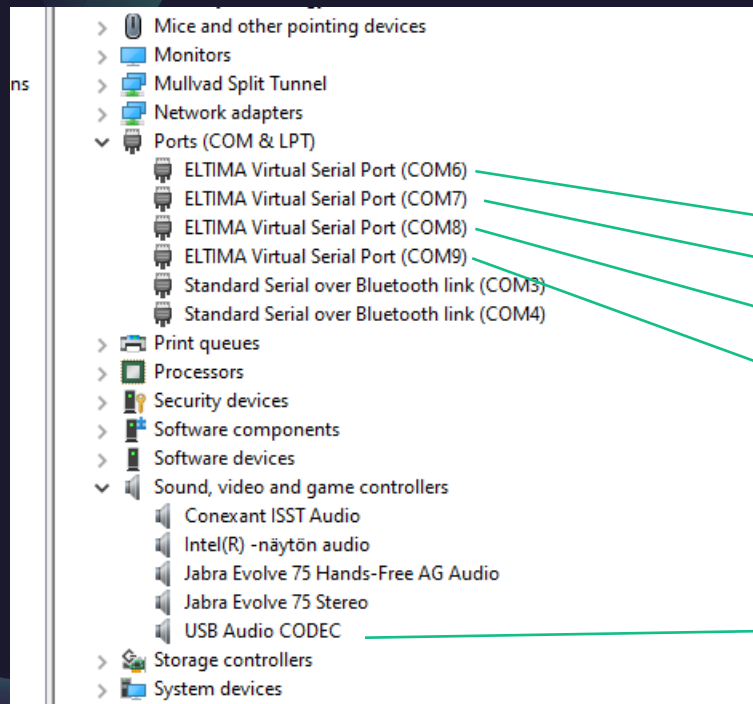
- Signalink, Rigexpert
- <https://xggcomms.com/index.html> (täällä on valmiit interfacet moneen eri radioon)
- Tai radiossa oleva valmis valmis USB –liitäntä, niin erillistä interface –palikkaa ei tarvita.

Kannattaa ladata ja asentaa uusimmat WSJT-X ja GridTracker ohjelmat:

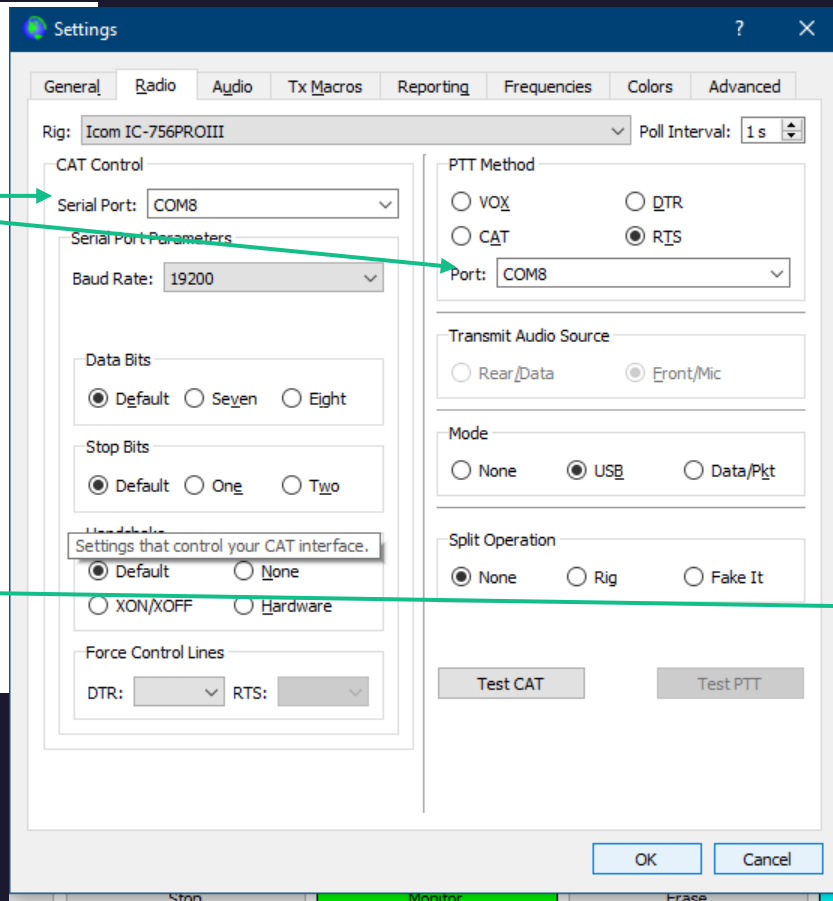
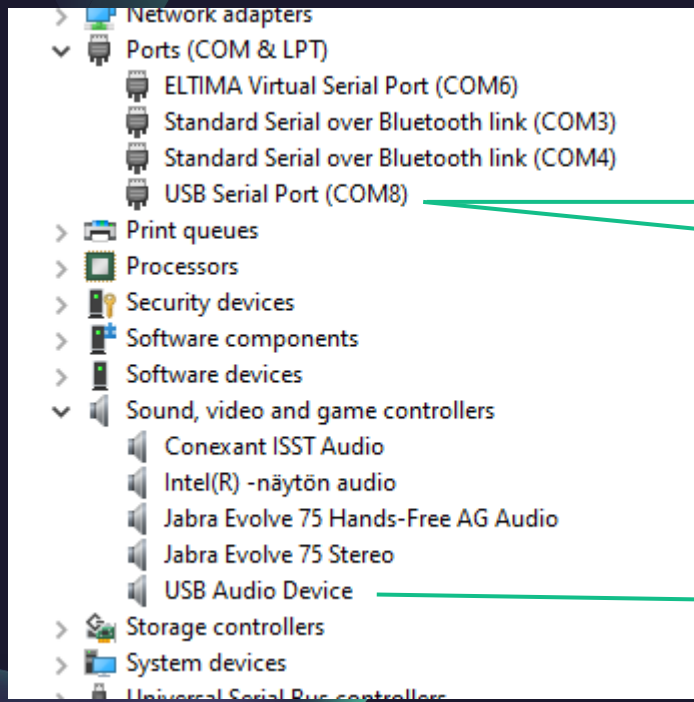
<https://sourceforge.net/projects/wsjt-x-improved/> (parannettu wsjt-x)

<https://gridtracker.org/index.php/downloads/gridtracker-downloads> (ei välttämätön, mutta helpottaa asioita)

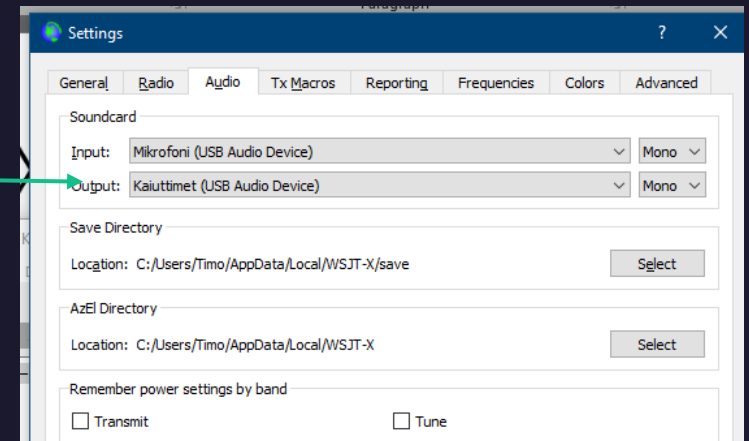
RigExpert – IC-756ProIII



XGGCOMMS USB-Digimode-4

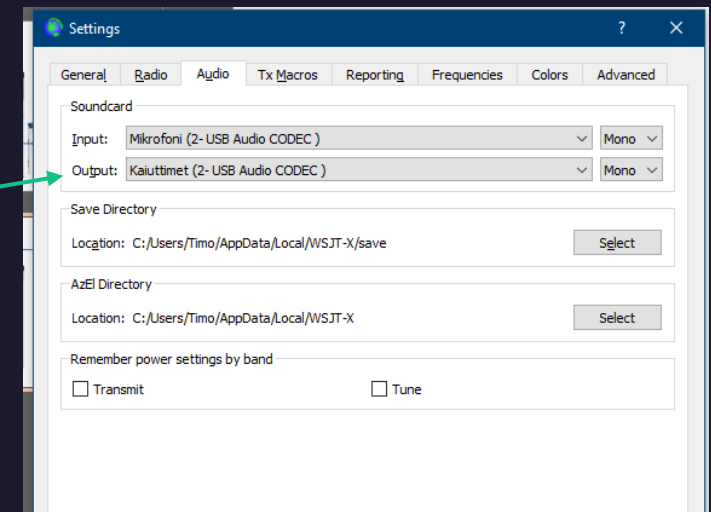
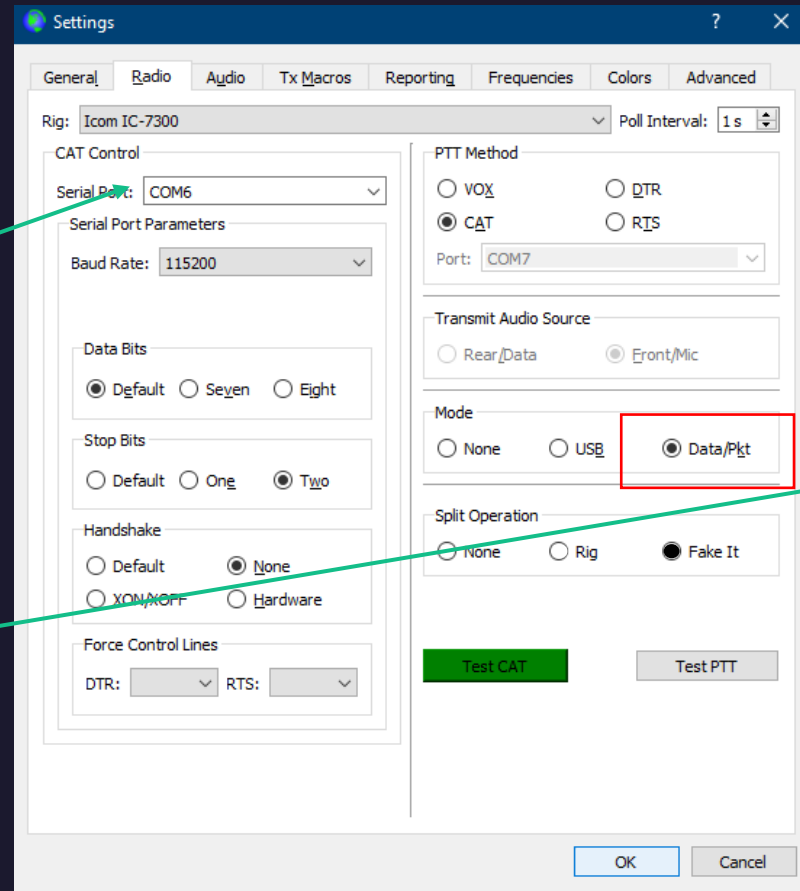
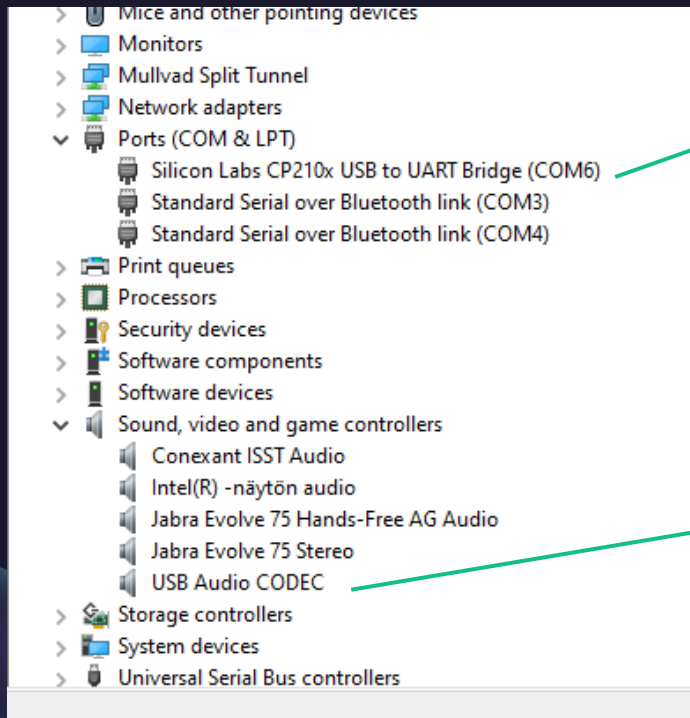


RigExpert ei toimi MacOS:lla,
tämä toimii



IC-7300 USB

Suora USB -kaapeli tietokoneesta Icomiin



Oikea aika ehdottoman tärkeä

Ilman tarkkaa aikaa FT8 ja FT4 yhteydet ei toimi kunnolla.

Lataa netistä ohjelma, joka asettaa ajan sekunnilleen oikeaksi. Tässä yksi hyvin toimiva:

<https://www.timesynctool.com/>

Aseta ajan päivitys tunnin välein



Network Time

Time: 22.03.2024 20:22:43
Last Attempt: 22.03.2024 20:15:00
Last Sync: 22.03.2024 20:15:00 +7ms
Next Attempt: 52m 22s
Time is synchronized.
Mode: Windows Service Stop

Individual Time Servers:

Server Name	Status	Offset	Lag	Last Error
0.nettime.pool.ntp.org	Good	+7ms	19ms	
1.nettime.pool.ntp.org	Not Used			
2.nettime.pool.ntp.org	Not Used			
3.nettime.pool.ntp.org	Not Used			

Last Error: 21.03.2024 11:16:42 (Network Down)

Update Now Settings... About Close

NetTime Options

Time Servers:	Hostname or IP Address	Protocol	Port Number
	0.nettime.pool.ntp.org	SNTP	123
	1.nettime.pool.ntp.org	SNTP	123
	2.nettime.pool.ntp.org	SNTP	123
	3.nettime.pool.ntp.org	SNTP	123

Update Interval: 1 hours
Retry Interval: 1 minutes
 Demote Servers after 4 failures.
 Allow other computers to sync to this computer
 Always provide time (NOT recommended!)
 Show NetTime icon in the system tray at login
 Start NetTime service at bootup
Max Free Run: 2 hours
If Time adjustment greater than 1 seconds Adjust System Time
 Automatically Check For Updates every 30 day(s) Check Now
Logging Level: Normal View
OK Cancel

wsjt-x (improved)

Muutamia käytännön ohjeita wsjt-x käyttöön.

Malleissa on käytössä wsjt-x improved v 2.7.1

Perusversio wxjt-x toimii paremmin MacOS:sa.

Asetukset kohdalleen

Tässä on wsjt-x improved yksi
asetusvalikoista.

Saattaa hieman poiketa omastasi.

Tärkeitä: My CALL ja My Grid

Muut valinnat voi jokainen kokeilla
sopivaksi.

Asetukset kohdalleen

Tässä on wsjt-x improved
suodattimien asetusvalikko

Voit estää joitain asemia/maita
helposti

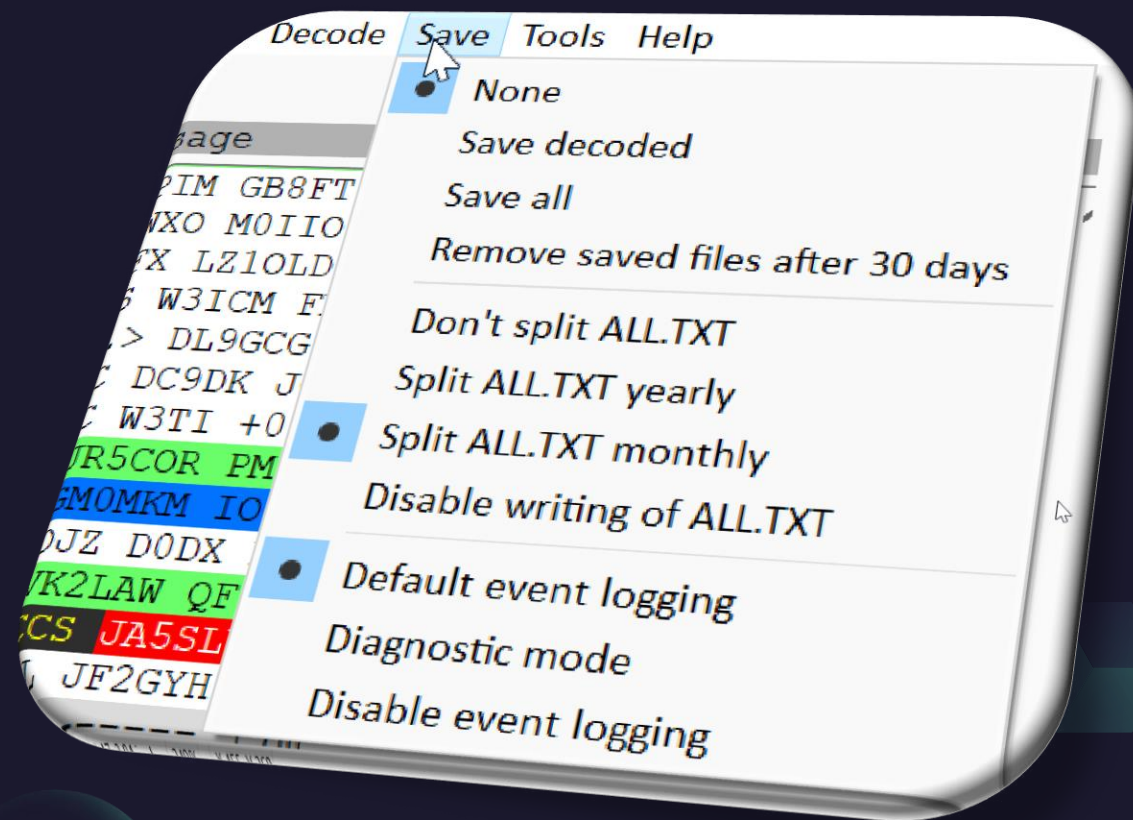
The screenshot shows the 'Settings' window with the 'Filters' tab selected. The window title is 'Settings' and it has standard window controls (minimize, maximize, close). The tabs are: General, Radio, Audio, Tx Macros, Reporting, Frequencies, Colours, Advanced, Alerts, and Filters. The main content area is titled 'Filters for the Band Activity window' and contains the following sections:

- Territories 1-4 for the Hide checkboxes in the View menu:** A row of four text input fields. The first field contains 'Russia'.
- Blacklist:** A checked checkbox labeled 'Hide messages containing the following callsigns or keywords:'. Below it are four text input fields. The first three contain 'D1DX', 'R6FX', and 'D1FF' respectively.
- Whitelist:** An unchecked checkbox labeled 'Show only messages containing the following callsigns or keywords:'. Below it are four empty text input fields.
- Always Pass:** An unchecked checkbox labeled 'Always pass messages with the following keywords:'. Below it are four empty text input fields.
- At the bottom, there are two unchecked checkboxes: 'Apply filters only to the callsigns of the calling stations' and 'Use filters for Wait and Pounce only'.

At the bottom right of the window, there are 'OK' and 'Cancel' buttons.

Asetukset kohdalleen

wsjt-x improved ylävalikosta voisi laittaa ALL.TXT joka kuukaudelle oman, jos pidät paljon yhteyksiä.



Kuuntelu voi alkaa

Valitse bandi ja kuuntele jonkin aikaa löytyykö asemia.

Värit voi poiketa hieman omassa koneessa ja ne voi asettaa vapaasti.

Katso onko dB sopivan voimakas yhteydelle. < -20 dB alkaa jo olla liian heikko.

Hold TX Freq –valinta ehdottomasti päälle!

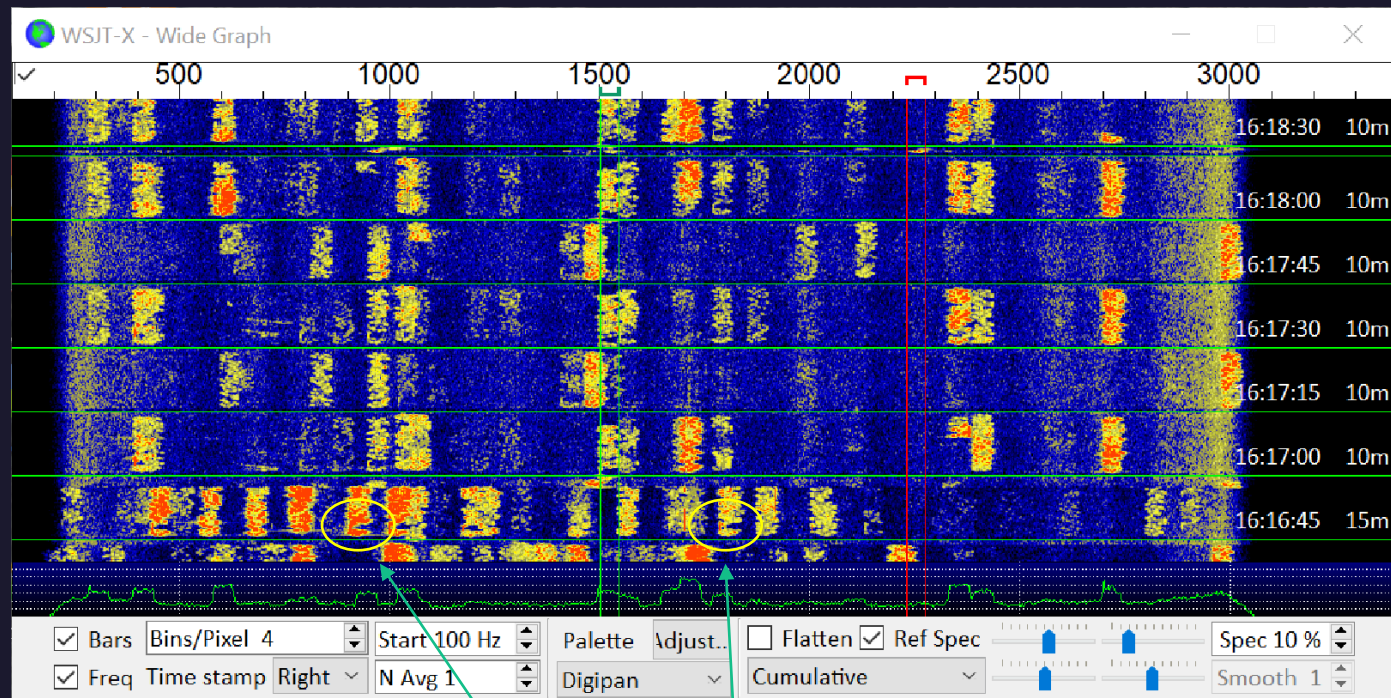
= sama toiminta kuin split

The screenshot shows the WSJT-X v2.7.1-devel software interface. The main window is titled "Band Activity" and displays a list of stations with columns for UTC, dB, DT, Freq, and Message. The stations are color-coded by band: 161730 (purple), 161800 (green), and 161816 (red). A red box highlights the "Tx" entry in the 161816 band. The "Rx Frequency" window on the right shows the current frequency and message. The bottom control panel includes buttons for "Log QSO", "Stop", "Monitor", "Erase", "Decode", "Enable Tx", "Halt Tx", and "Tune". The "Hold TX Freq" checkbox is checked. The frequency display shows 28.074 500 Hz. The "Tx" field shows "EA7KMT OH8CCS KP24". The "Rx" field shows "1501 Hz". The "Generate Std Msas" window is open, showing a list of messages with "Tx 1" selected. The status bar at the bottom shows "Tx: EA7KMT OH8CCS KP24 IC-7300 FT8 21".

Vesiputousnäyttö

Valitse hiiren kakkosnapilla (wsjt-x improved) jokin vähiten käytössä oleva kaista (50Hz) vesiputousnäytöltä.

Oma TX kaista näkyy punaisena.



Tällaisesta koukkunokasta tunnistaa CQ:n 😊

Aikaleimat

Huomaa poikkeavat aikaleimat. Jos ne on +/- 1 sek sisällä, niin QSO pitäisi syntyä kunnolla.

Tässä mentiin jo rajoja hipoen (-1.7sek)

The screenshot shows a radio software interface with a list of QSOs. A pink arrow points to the entry: 161800 -10 -1.7 1501 ~ CQ EA7KMT IM77 Spain. The interface includes a 'Band Activity' table with columns for UTC, dB, DT, Freq, and Message. Below the table are controls for frequency (28.074 500), call signs (EA7KMT, IM77), and a 'Generate Std Mses' list.

UTC	dB	DT	Freq	Message
161730	-13	0.1	869 ~	2E00EW SV9KNA RR73 Crete
161730	-14	0.1	788 ~	CQ IZ8XFM JM89 Italy
161730	12	0.1	285 ~	LU2GE EA1IOK IN62 Spain
161730	-8	0.5	1855 ~	CS7AUT SV9THE KM25 Crete
161730	-11	0.3	1265 ~	LU2GE EA5L -14 Spain
161730	-10	0.1	1677 ~	CO2QU SV1EKI KM18 Greece
161730	-15	0.6	1872 ~	CQ DX CN8NS IM63 Morocco
161730	6	0.2	414 ~	N7TTA EA4NW R-24 Spain
161730	-16	0.1	1735 ~	CQ EA1PCS IN53 Spain
161730	-14	0.2	1050 ~	NR0Q EA5D JN00 Spain
10m				
161745	14	0.2	2984 ~	PY2MIG SV1HFE KM18 Greece
161745	-3	0.1	815 ~	KO4WUB EA7HJ -21 Spain
161745	-5	0.8	2116 ~	K9FM CT1BOH IM58 Portugal
161745	1	0.1	952 ~	KD2ZHW CS7BCP R-13 Portugal
161745	-6	0.1	1972 ~	CN8NS SV4LGX +00 Greece
161745	5	0.3	1469 ~	NI1WP EA4FVT IN80 Spain
161745	-1	0.1	1465 ~	R7KEO EA5HM R-16 Spain
161745	-20	0.2	2319 ~	PZ5RA SV3NYZ KM07 Greece
10m				
161800	12	0.3	584 ~	HH2JR EA5RU IM99 Spain
161800	-3	0.1	2391 ~	YO5COG EA4I RR73 Spain
161800	14	0.2	1694 ~	YV7RCV EA4AA -16 Spain
161800	0	-0.1	1546 ~	EA2RCU CX5ABM R-15 Uruguay
161800	2	0.8	1023 ~	LU2GE IT9JXE JM77 Italy
161800	-10	-1.7	1501 ~	CQ EA7KMT IM77 Spain
161800	3	0.2	2336 ~	CO2QU YT9GMD R-10 Italy
161800	11	0.1	285 ~	LU2GE EA1IOK IN62 Spain
161800	-14	0.1	788 ~	LU2GE IZ8XFM JM89 Italy
161800	8	0.1	2703 ~	KW7E EA7KOM IM87 Spain
161800	-1	0.4	1771 ~	CQ PW8BR FH99 Brazil
161800	10	0.0	392 ~	SA6SKA 7QGM -18 Malawi
161800	-15	0.4	1182 ~	TF3G LX1GQ -17 Luxembourg
161800	-18	0.2	2544 ~	HH2JR OZ5JLH JO65 Denmark
161800	-9	0.5	1855 ~	CS7AUT SV9THE R+10 Crete
161800	-9	0.1	1265 ~	LU2GE EA5L -14 Spain
161800	-2	0.2	2704 ~	CQ EA5GDU IM95 Spain
161800	3	0.2	414 ~	N7TTA EA4NW R-24 Spain
161800	-3	0.1	1678 ~	CO2QU SV1EKI KM18 Greece
161800	-18	0.1	753 ~	TI2JJP US8UX -13 Ukraine
161800	-24	0.1	868 ~	CQ SV9KNA KM25 Crete

Connecting People

Tässä on tuplaklikattu vasemmassa ikkunassa olevaa EA7KMT –asemaa. Wsjt-x muodostaa automaattisesti viestit ja etenee n 15 sek jaksoissa eteenpäin.

Omat viestit näkyvät oikeassa ikkunassa.

The screenshot displays the Wsjt-x software interface. The main window is divided into two panes. The left pane, titled 'Band Activity', shows a list of stations with columns for UTC, dB, DT, Freq, and Message. A pink arrow points to the entry '161800 -3 0.1 2391 ~ YO5COG EA4I RR73 Spain'. The right pane, titled 'Rx Frequency', shows a list of received messages with columns for UTC, dB, DT, Freq, and Message. The entry '161816 Tx 2230 ~ EA7KMT OH8CCS KP24' is highlighted in red. Below the panes, there are control buttons for 'Log QSO', 'Stop', 'Monitor', 'Erase', 'Decode', 'Enable Tx', 'Halt Tx', and 'Tune'. The 'Enable Tx' button is highlighted in red. At the bottom, there is a 'Tx even/1st' section with a frequency of 28.074 500 and a 'Tx 2230 Hz' field. A 'Generate Std Mses' section shows a list of messages, with 'EA7KMT OH8CCS KP24' selected. The date and time '2024 Mar 22 16:18:25' are displayed in a black box.

Yhteys valmis

Yhteys kuitataan valmiiksi RR73 ja 73 EA7KMT:n kanssa QSO syntyi nopeasti ja uusi ikkuna ilmestyi josta painamalla OK, QSO tallentuu wsjt-x .ADI –tiedostoon.

Kannattaa tarkistaa, että vastaseaman grid on talletettuna ja mukana. Helpottaa tulevaisuuden tilastointeja ja yhteyden pitoa.

The screenshot shows the WSJT-X v2.7.1-devel interface. The main window displays a log of QSOs with columns for UTC, dB, DT, Freq, and Message. A dialog box titled "Click OK to confirm the following QSO:" is open, showing details for a QSO with Call EA7KMT, Start 22.03.2024 16:18:45, and End 22.03.2024 16:19:45. The dialog includes fields for Mode (FT8), Band (10m), Rpt Sent (-03), Rpt Rcvd (-11), Grid (IM77), and Name. There are also checkboxes for "Retain" and "Add" comments. A pink arrow points from the text in the first block to the "OK" button in the dialog box. The background shows a waterfall display with a signal at 28.074 500 Hz and a frequency display at 2230 Hz. The status bar at the bottom shows "Tx: EA7KMT OH8CCS 73 | IC-7300 | FT8 | 17 | Last Tx: EA7KMT OH8CCS R-03 | 4/15 | WD:10m".

Yhteyden saaminen saattaa kestää

Joskus valmiin QSO:n saaminen voi kestää muutamia 15 sek jaksoja.

Tässä on kutsuttu useita kertoja ja viimein yhteys on saatu kuitattua valmiiksi RR73 ja 73

174045	-4	0.1	1563	~	IU8LLZ	HS8MOM	RR73	Thailand
174145	-2	0.2	1555	~	LZ1OPM	DK3TNA	JO62	Germany
174145	-3	0.1	1564	~	EA8VJ	HS8MOM	NJ99	Thailand
174200	Tx		2163	~	HS8MOM	OH8CCS	KP24	
174215	-1	0.2	1557	~	LZ1OPM	DK3TNA	JO62	Germany
174215	-4	0.1	1563	~	EA8VJ	HS8MOM	NJ99	Thailand
174230	Tx		2163	~	HS8MOM	OH8CCS	KP24	
174245	0	0.2	1556	~	LZ1OPM	DK3TNA	JO62	Germany
174300	Tx		2163	~	HS8MOM	OH8CCS	KP24	
174330	Tx		2163	~	HS8MOM	OH8CCS	KP24	
174345	2	0.2	1555	~	2I0P XK	DK3TNA	JO62	Germany
174345	-6	0.1	1563	~	OH8CCS	HS8MOM	-09	Thailand
174400	Tx		2163	~	HS8MOM	OH8CCS	R-06	
174415	3	0.2	1555	~	2I0P XK	DK3TNA	R+01	Germany
174430	Tx		2163	~	HS8MOM	OH8CCS	R-06	
174445	3	0.2	1555	~	2I0P XK	DK3TNA	73	Germany
174445	0	0.1	1563	~	4L1AX	HS8MOM	NJ99	Thailand
174500	Tx		2163	~	HS8MOM	OH8CCS	R-06	
174515	-1	0.1	1562	~	4L1AX	HS8MOM	NJ99	Thailand
174530	Tx		2163	~	HS8MOM	OH8CCS	R-06	
174545	-2	0.1	1563	~	OH8CCS	HS8MOM	RR73	Thailand
174600	Tx		2163	~	HS8MOM	OH8CCS	73	
174615	-5	0.1	1562	~	R2BBX	HS8MOM	-21	Thailand

Oma CQ kutsu

Oma CQ tapahtuu helposti
valitsemalla viestivalikosta viimeinen
rivi ja painamalla **Enable TX**

<https://youtu.be/TrAFpmxTn7A>

The screenshot shows the WSJT-X v2.7.1-devel interface. The 'Band Activity' window displays a list of received messages with columns for UTC, dB, DT, Freq, and Message. The 'Rx Frequency' window shows the current frequency and message. The 'Tx' list at the bottom right contains several messages, with the last one, 'CQ OH8CCS KP24', selected. A pink arrow points from the text 'Enable TX' to the 'Enable Tx' button in the software interface.

UTC	dB	DT	Freq	Message
161730	-13	0.1	869	~ 2E00EW SV9KNA RR73 Crete
161730	-14	0.1	788	~ CQ IZ8XFM JM89 Italy
161730	12	0.1	285	~ LU2GE EAL1OK IN62 Spain
161730	-8	0.5	1855	~ CS7AUT SV9THE KM25 Crete
161730	-11	0.3	1265	~ LU2GE EA5L -14 Spain
161730	-10	0.1	1677	~ CO2QU SV1EKI KM18 Greece
161730	-15	0.6	1972	~ CQ DX CN8NS IM63 Morocco
161730	6	0.2	414	~ N7TTA EA4NW R-24 Spain
161730	-16	0.1	1735	~ CQ EA1FCS IN53 Spain
161730	-14	0.2	1050	~ NROQ EA5D JN00 Spain

UTC	dB	DT	Freq	Message
161800	10	-1.7	1501	~ CQ EA7KMT IM77 Spain
161816	Tx		2230	~ EA7KMT OH8CCS KP24

UTC	dB	DT	Freq	Message
161800	12	0.3	584	~ HH2JR EA5RU IM99 Spain
161800	-3	0.1	2391	~ YO5COG EA4I RR73 Spain
161800	14	0.2	1694	~ YV7RCV EA4AA -16 Spain
161800	0	-0.1	1546	~ EA2RCU CX5ABM R-15 Uruguay
161800	2	0.8	1023	~ LU2GE IT9JXE JM77 Italy
161800	10	-1.7	1501	~ CQ EA7KMT IM77 Spain
161800	3	0.2	2336	~ CO2QU IT9GMD R-10 Italy
161800	11	0.1	285	~ LU2GE EAL1OK IN62 Spain
161800	-14	0.1	788	~ LU2GE IZ8XFM JM89 Italy
161800	8	0.1	2703	~ KW7E EA7KOM IM87 Spain
161800	-1	0.4	1771	~ CQ PW8BR FH99 Brazil
161800	10	0.0	392	~ SA6SKA 7Q6M -18 Malawi
161800	-15	0.4	1182	~ TF3G LX1GQ -17 Luxembourg
161800	-1	0.2	2544	~ HH2JR OZ5JLH JO65 Denmark
161800	-9	0.5	1265	~ CS7AUT SV9THE R+10 Crete
161800	-9	0.1	1265	~ LU2GE EA5L -14 Spain
161800	-2	0.2	2704	~ CQ EA5GK R-24 Spain
161800	3	0.2	414	~ N7TTA EA4NW R-24 Spain
161800	-3	0.1	1678	~ CO2QU SV1EKI KM18 Greece
161800	-18	0.1	753	~ TI2JJP US8UX -13 Ukraine
161800	-24	0.1	868	~ CQ SV9KNA KM25 Crete

FT4 yhteydet

FT4 yhteydet toimii samalla tavalla, mutta viestittely tapahtuu 7.5 sek jaksoissa ja on siis paljon vilkkaampaa.

Klikkaamalla FT4 nappia, taajuus vaihtuu FT4 käyttöä varten ja vesiputousnäytössä näkyy hieman leveämpi kaista (83.3Hz).

The screenshot shows the WSJT-X v2.7.1-devel interface. The top part displays two tables: 'Band Activity' and 'Rx Frequency'. The 'Band Activity' table lists various stations and their frequencies, while the 'Rx Frequency' table shows received signals. The bottom part of the interface is the control panel, which includes a frequency display (14.080 000), a mode selector (FT4 is highlighted), and a 'Monitor' button. A pink arrow points to the FT4 button in the mode selector.

Band Activity					Rx Frequency				
UTC	dB	DT	Freq	Message	UTC	dB	DT	Freq	Message
073215	-6	0.0	864 +	CQ PC6R JO22 Netherlands	073230	-3	0.0	864 +	CQ PC6R JO22 Netherlands
073215	-4	0.8	1862 +	CQ LZ543BN Bulgaria	073239	Tx		317 +	PC6R OH8CCS KP24
073222	2	0.0	1409 +	CQ DL9KV JO31 Germany	073245	-3	0.0	864 +	OH8CCS PC6R -02 Netherlands
073222	8	-0.0	1700 +	<LZ543BN> DM5DK JO62 Germany	073252	Tx		317 +	PC6R OH8CCS R-03
073222	3	-0.0	1919 +	CQ SP5CGN R002 Poland	073300	-6	0.0	863 +	OH8CCS PC6R RR73 Netherlands
073222	-9	-0.1	1861 +	<LZ543BN> DL8HOT JO61 Germany	073307	Tx		317 +	PC6R OH8CCS 73
073230	-3	0.0	864 +	CQ PC6R JO22 Netherlands					
073230	-5	0.8	2055 +	CQ LZ543BN Bulgaria					
073245	-3	0.0	864 +	OH8CCS PC6R -02 Netherlands					
073245	-8	0.8	2054 +	DM5DK <LZ543BN> -04 Bulgaria					
073300	-6	0.0	863 +	OH8CCS PC6R RR73 Netherlands					
073300	-11	0.8	2053 +	<DM5DK> LZ543BN RR73 Bulgaria					

Control Panel: CQ/73 BP Log QSO Stop Monitor Erase Decode Enable Tx Halt Tx Tune Menus

Frequency: 14.080 000

Mode: FT4 (highlighted)

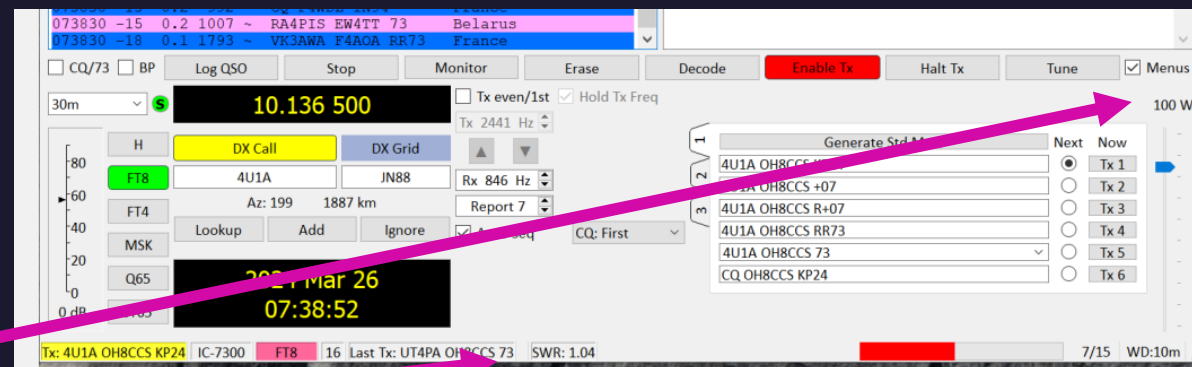
Call: PC6R JO22

Az: 230 1797 km

Date/Time: 2024 Mar 26 07:33:14

Status: Receiving, Filters On IC-7300 FT4 2 Last Tx: PC6R OH8CCS 73 SWR: 1.00 6/7.5 WD:10m

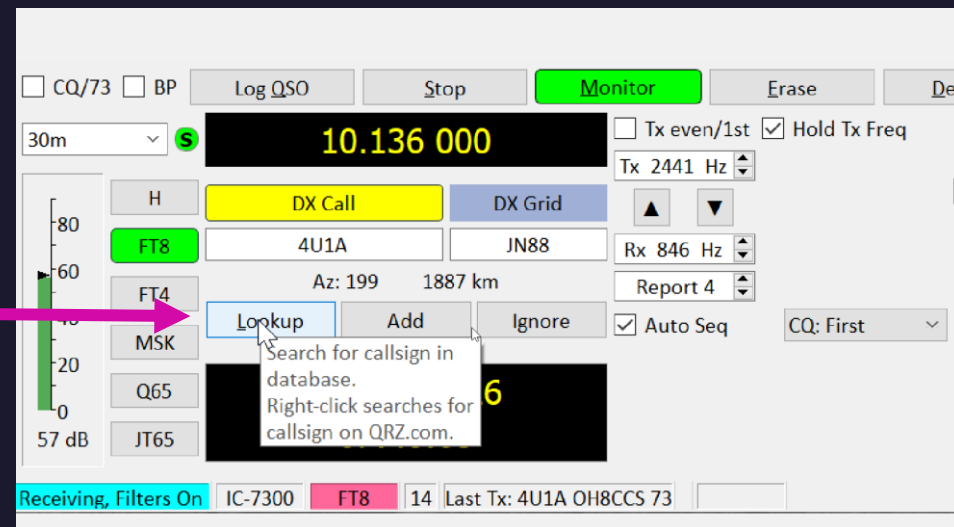
Wsjt-x improved



Pari uutta ominaisuutta:

SWR ja teho näky uusimmissa versioissa

Hiiren kakkospainikkeella saa asemaan liittyvän QRZ.com sivun selaimen





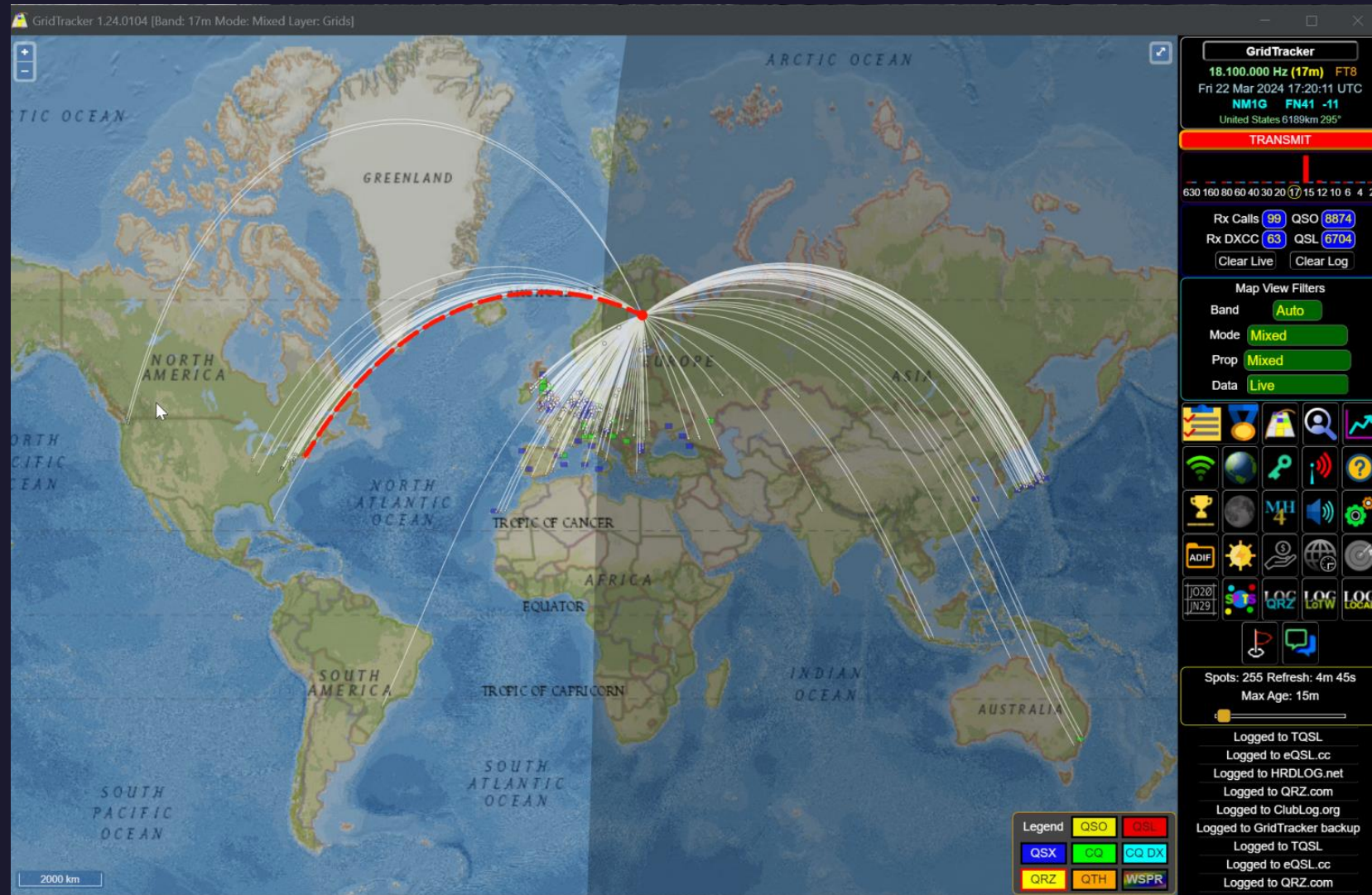
GridTracker

Ilmainen apuohjelma helpottamaan operointia.

Integroitu saumattomasti wsjt-x ohjelmiin.

Päänäkymä

- Gridtrackerillä voi helposti monitoroida mitä kuuluu ja kuka kuulee.
- Lisäksi se toimii automaattisena FT8/FT4 QSO logien lähettäjänä usealle eri sivuille (QRZ.com, LoTW, eQSL, yms)
- Tähän näyttöön saa näkyville kuuluvat ja vahvistetut gridit vaikka bandin ja moden mukaan.
- Tähän näkymään on valittu kuuluvat asemat ja lisäksi PSKreporter.info data



Wsjt-x logaukset lähetetään automaattisesti näille

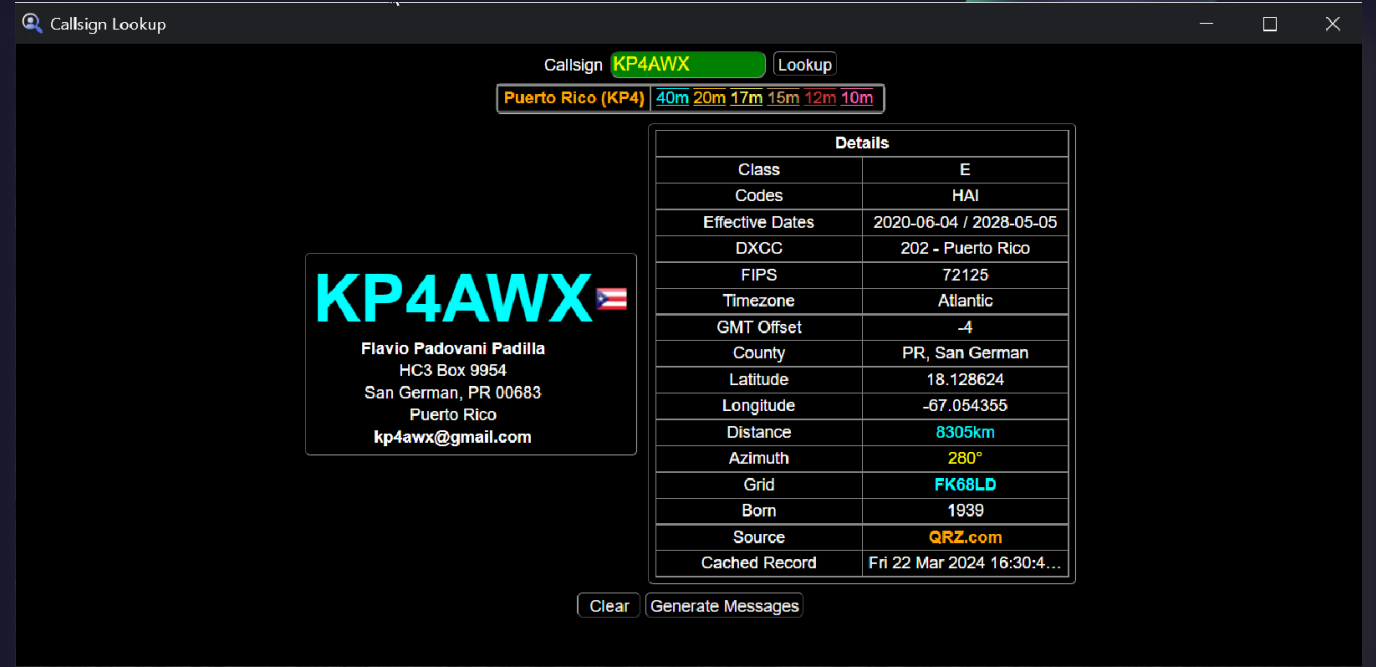
Asemalistaus

- Tässä näkymässä näkee helposti puuttuvat maat (DXCC) tai puuttuvat Gridit.
- Näkymässä voi helposti sortata, esim etäisyyden, maiden, suunnan, kuuluvuuden yms mukaan.
- Klikkaamalla listassa näkyvää asemaa voi myös käskellä wsjt-x:n yrittämään yhteyttä.

RECEIVE		Halt TX	Settings	Wanted		Exceptions		Fewer Controls	
Logbook	Mix Band & Modes			<input type="checkbox"/> Callsign	<input type="checkbox"/> POTA	<input type="checkbox"/> State	<input type="checkbox"/> CQ Only	<input type="checkbox"/> New Calls	
Callsigns	All Traffic			<input checked="" type="checkbox"/> Grid	<input type="checkbox"/> OAMS	<input type="checkbox"/> County	<input checked="" type="checkbox"/> RR73 as CQ	<input type="checkbox"/> Spotted Me	
Hunting	New+Unconfirmed			<input checked="" type="checkbox"/> DXCC	<input type="checkbox"/> COZ	<input type="checkbox"/> Continent	<input type="checkbox"/> Has Grid	<input type="checkbox"/> Uses eQSL	
				<input type="checkbox"/> QRZ	<input type="checkbox"/> ITUZ	<input type="checkbox"/> Watcher	<input type="checkbox"/> Not My DXCC	<input type="checkbox"/> Uses OQRS	
				<input type="checkbox"/> WPX	<input type="checkbox"/> Marathon		<input type="checkbox"/> Only My DXCC	<input type="checkbox"/> ...	
Callsign	Calling	Grid	DXCC	dB	Dist (km)	Azim	Spot	Age	
PVU	SV2OEL	P100	Indonesia	-14	10319	85		1m 40s	
MAD	HB9GRN	OJ51	East Malaysia	-13	9646	93		27s	
AWX	CQ	FK68	Puerto Rico	-7	8266	280		11s	
ITP	A71UN/P	OL63	China	-24	7540	82		25s	
PPX	UN1L	EN52	United States	-24	6804	310		25s	
HMM	YO2MKL	JN00	Spain	5	3126	222		1m 12s	
ISZ	LZ1OPM	JN01	Spain	-13	3023	223		1m 10s	
V	CQ	JN11	Spain	-24	2961	220		1m 40s	
IHQ	CQ	JN40	Sardinia	-15	2906	209		27s	
ANK	RR73	KM89	Turkey	-11	2861	167		1m 10s	
OEL	CQ	KN00	Greece	5	2723	188		27s	
SZO	9A1CCB	KN10	Greece	-8	2713	185		27s	
IG	RR73	JN05	France	4	2618	227	0m / -12	12s	
BG	LZ1OPM	IN78	France	8	2555	239		12s	
IAY	US0UB	JN53	Italy	2	2540	208		12s	
2F	N5EI	JN25	France	17	2488	220		12s	
SU	K5CM	KN32	Bulgaria	0	2488	177	3m / -7	12s	
JA	CQ	KN22	Bulgaria	7	2486	181	3m / 1	12s	
V	RR73	LN04	European Russia	9	2458	149		12s	
MK	CQ	IN88	France	-5	2397	233		26s	
BZ	CE3HWU	JN26	France	22	2386	221		27s	
DNI	CQ	JN45	Italy	-6	2376	213		12s	
NWK	UN1L	JN45	Italy	-1	2376	213		27s	
IPX	CQ	JN45	Italy	24	2376	213	3m / -3	12s	
PD	DX1PRD	JN08	France	11	2323	230		27s	
MB	WA0KDS	JN65	Slovenia	14	2283	206		12s	
HRG	CQ	JN46	Switzerland	7	2271	214	2m / -20	41s	
AUH	CQ	JN75	Croatia	-12	2245	202		12s	
YDV	DF3IS	JN37	Switzerland	13	2224	219		27s	
PCB	RR73	JN85	Croatia	7	2214	198	0m / -6	12s	
IPE	CQ	IO90	England	-1	2209	236		27s	
GAN	KF9AF	IO80	England	-2	2209	236		11s	
NAA	YC8EGJ	KN05	Romania	-3	2169	189		28s	
HNB	K5CM	JN47	Switzerland	-6	2167	215	0m / -2	10s	
DKG	ER30ARM	JN47	Switzerland	22	2167	215	3m / 12	42s	
UQ	OK6RA	JN47	Switzerland	-3	2167	215		27s	
GRN	BX4AQ	JN47	Switzerland	14	2167	215	3m / -5	13s	
FKI	CQ	KN25	Romania	9	2152	181		28s	
RPK	CQ	JN76	Austria	-5	2137	202		26s	
ZN	OH6IH	IO82	England	-2	2111	243	3m / -2	40s	
KBU	SV9THE	JN29	Belgium	-14	2085	225		40s	
MN	K9LZJ	JN48	Germany	9	2064	216	0m / 18	43s	
ISDV	A71UN/P	JO10	Belgium	-8	2058	230		27s	
ICCM	US0UB	JO10	Belgium	1	2058	230		12s	
RPS	K5CM	JO01	England	5	2039	235	3m / 13	1m 12s	
RAK	CQ	JN77	Austria	-1	2029	203	0m / -6	12s	
HTG	CQ	JN77	Austria	8	2029	203		12s	
LJ	CQ	IO83	England	-24	2025	245		1m 40s	
AA	W2JUT	JN39	France	15	2021	221		27s	
SC	9W8MAD	JN58	Germany	7	2010	212		12s	
CPN	K4EAY	JN87	Hungary	6	1995	199		1m 12s	
OGI	CQ	JN97	Hungary	8	1968	194		28s	
TM	RR73	JN97	Hungary	-10	1968	194		11s	
QPA	DF100FK	JO11	Belgium	8	1963	232	3m / -3	27s	
DIP	ER30ARM	JO11	Belgium	13	1963	232	3m / 2	13s	
FHS	CQ	JN49	Germany	-15	1961	217		11s	
IZ	UD8F	JN49	Germany	14	1961	217		12s	
TV	CQ	JN49	Germany	-11	1961	217		25s	
PI	CQ	JN49	Germany	10	1961	217		13s	
IS	RR73	JN49	Germany	13	1961	217		12s	
IAK	ER30ARM	JN49	Germany	13	1961	217	3m / -12	1m 12s	
DD	DL8TV	LO33	European Russia	-24	1744	126		11s	
C	CQ	KO82	European Russia	-23	1522	149		27s	

Asematiedot

- Tässä näkymässä näkee helposti osoitteen, tiedot ja Gridin.
- Jos olet aikaisemmin pitänyt yhteyttä ko. asemaan, niin se tieto löytyy tästä.
- Joskus asema voi kutsua sinua ilman gridiä, niin ainakin tästä näkee puuttuvat tiedot.



The screenshot shows a web browser window titled "Callsign Lookup". The search bar contains "Callsign KP4AWX" and a "Lookup" button. Below the search bar, there are tabs for "Puerto Rico (KP4)" and a row of frequency bands: "40m", "20m", "17m", "15m", "12m", and "10m".

In the center, there is a call sign "KP4AWX" with a Puerto Rican flag icon. Below it, the following information is displayed:

Flavio Padovani Padilla
HC3 Box 9954
San German, PR 00683
Puerto Rico
kp4awx@gmail.com

To the right, there is a "Details" table:

Details	
Class	E
Codes	HAI
Effective Dates	2020-06-04 / 2028-05-05
DXCC	202 - Puerto Rico
FIPS	72125
Timezone	Atlantic
GMT Offset	-4
County	PR, San German
Latitude	18.128624
Longitude	-67.054355
Distance	8305km
Azimuth	280°
Grid	FK68LD
Born	1939
Source	QRZ.com
Cached Record	Fri 22 Mar 2024 16:30:4...

At the bottom of the details section, there are "Clear" and "Generate Messages" buttons.

MacLoggerDX

Ei niin ilmainen apuohjelma helpottamaan operointia MacOS kanssa

Yleiskone Macille

- Erittäin monipuolinen apuohjelma Mac –käyttäjille helpottamaan FT8/FT4 wsjt-x logaamista useihin eri paikkoihin automaattilla.
- Löytyy myös RIG ohjaus, rotator – control, QSL –tulostus ja paljon muutakin.
- <https://dogparksoftware.com/MacLoggerDX.html>
- Lisenssimaksu \$95.00, mutta toimii 15min pätkissä ilmaiseksi.

The screenshot displays the MacLoggerDX software interface. At the top, it shows the current QSO: K0HUU worked on 20m FT8 on 2019-08-15 at 14:34:21. The interface is divided into several sections:

- Radio Control:** Shows the frequency 14.074.00 MHz, filter 3000 Hz, and various mode and bandwidth settings (VFO A, USB-D, 0.5 kHz).
- QSO Log Entry:** Displays call sign W1AW, time on/off (10:31 AM -0400), frequency (14.074.00 MHz), power (40 W), and other details like location (NEWINGTON, CT) and DXCC (201 United States).
- Map View:** Shows a map of the United States with a grid overlay. The current location is marked as VE3VRW-HS at 0°/180° 0 mi. Other call signs like K9DR and W1JIT are visible on the map.

Digimode ja tehorojoitukset

Huomioi tehorojoitukset digimodea käytettäessä

PEP = Peak Envelope Power

- Antennien ja virittimien tehonkestot ilmoitetaan yleensä PEP –tehona ja yleensä sillä tarkoitetaan SSB tehonkestoaa.
- Jos lähetät FT8/FT4/RTTY/PSK - modea, niin rajoita tehoa niin, ettei rajat ylity.
- 20-30W FT8 = 100W SSB

Transmission mode	Duty cycle
FM / AM	100%
SSB	20% *
CW	50%
Digital modes (FT8, RTTY)	100%

The FT8 paradox

Since the introduction of FT8, quite some equipment has been damaged. That is not surprising. You only need to look at the duty cycle to see where things goes wrong. The problem lies in the fact that FT8 uses SSB as transmission mode (specifically USB). However, the 20% duty cycle for SSB is not applicable to a digital mode like FT8. When working with FT8, you quickly notice that the transmitted power is almost continuous. The duty cycle for FT8 is, in fact, 100% instead of 20%.

Thank you

Timo S / OH8CCS

