

# WSJT-X konfigurointi ja peruskäyttö

Tässä ohjeessa käydään läpi miten konfiguroidaan ja käytetään WSJT-X ohjelmistoa FT8 digimodeilla.



The screenshot displays the WSJT-X software interface. The top-left window shows a waterfall plot with frequency on the x-axis (400-2000 kHz) and amplitude on the y-axis. The top-right window shows a log of received messages with columns for UTC, dB, DT, Freq, and Message. The bottom window shows the control panel with a frequency display of 7,074,000 Hz, a mode of FT8, and various control buttons like 'Monitor', 'Decode', and 'Generate Std Msgs'. The status bar at the bottom indicates 'Receiving FT8' and 'Last Tx: BD7BS OH8AA KP25'.

UTC	dB	DT	Freq	Message
155345	-15	0.0	1340	~
155345	-7	0.1	1557	~ CQ RUS EW3DU
155345	-15	0.7	1731	~ CQ RZGAOJ KN96
155345	-8	0.4	1809	~ CQ R9GM LO89
155345	-10	-0.4	2092	~ ASA RZ3DC X085
155345	-24	0.4	792	~ JH1APK BD7BS RR73
155345	-23	0.1	1230	~ OE1RWU PA3AGN R+00
155345	-15	0.0	1801	~ CQ UXSIO KN87
155415	-4	-1.2	374	~ VK4COF UX7IN R-14
155415	-9	-0.8	439	~ VU2KFU 407TC JN92
155415	-14	0.1	798	~ CQ R8QD X024
155415	-6	0.1	867	~ OH5MZ IKSFO5 73
155415	-3	0.1	1237	~ YC3BLJ RA4LY -09
155415	-16	0.0	1340	~ CQ EALABT IN73
155415	-7	0.1	1557	~ CQ RUS EW3DU
155415	-5	0.4	1808	~ YC2TMM R9GM -06
155415	-9	-0.0	2081	~ CQ UA4SBZ L036
155415	-18	0.2	790	~ ASA G3YRC JO02
155415	-14	0.1	1802	~ CQ UXSIO KN87
155430	-4	0.3	549	~ CQ OE3UKW JN88
155430	-12	0.3	630	~ UX7IN VK4COF RRR
155430	-7	0.1	747	~ R8OD DG1FBA JO30
155430	-3	0.0	967	~ OH3HFV PD8DX 73
155430	0	0.2	1104	~ CQ XT7M LN85
155430	-2	0.1	1231	~ OE1DMB OE1RWU -10
155430	-4	0.6	1478	~ CQ RV3CW M006
155430	-2	0.1	1643	~ CQ OZ4GD JO65
155430	-5	1.0	1801	~ UXSIO RA6HJ LN05
155430	-13	0.1	1891	~ CQ YF7SPN O167
155430	-9	0.7	716	~ EA7GWD EALABT IN73

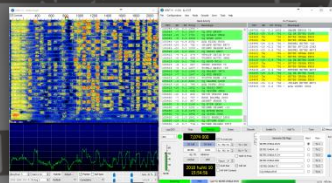
# WSJT-X Konfigurointi

## Vaatimukset

- Tietokone jossa nettiyhteys
- Tietokone liitettynä rigiin (CAT ohjaus + audio)
- Seuraavat ohjelmistot asennettuna koneellesi
  - WSJT-X
  - Haluamasi reaaliaikaohjelmisto kuten esimerkiksi Dimension4

Windows tietokone

WSJT-X  
asennettuna



Interface



Laadukas Kenwood rigi  
(muutkin saattavat toimia)



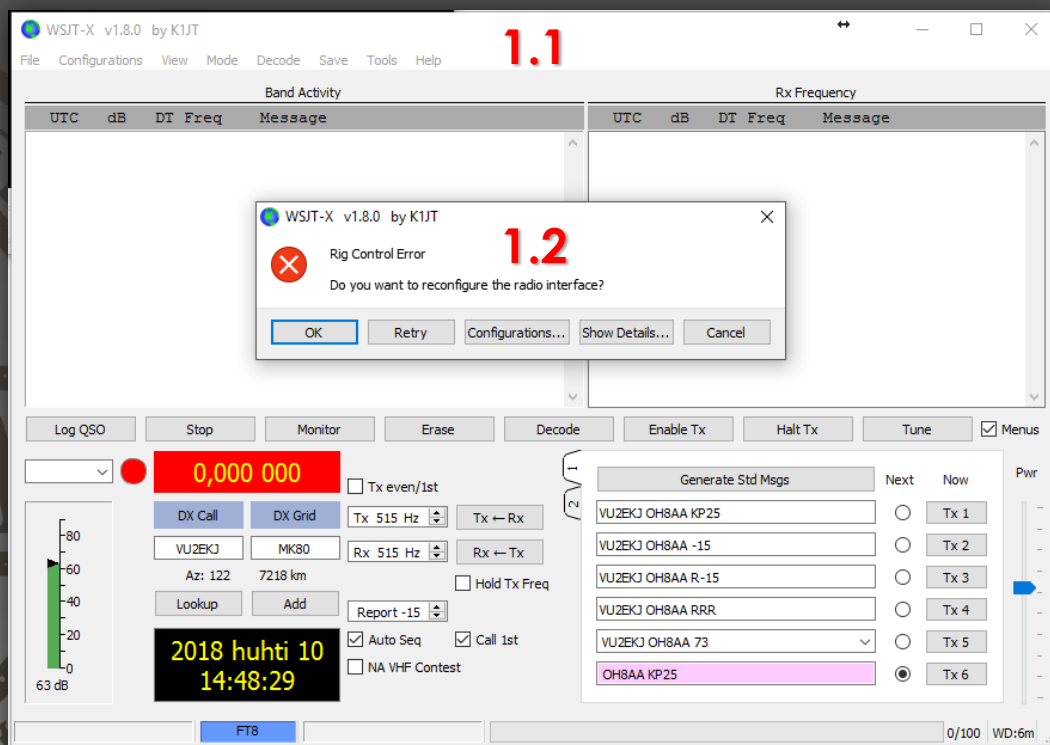
# WSJT-X Konfigurointi

## Vaihe 1 – Ohjelman konfigurointi

### 1.1 Asetukset

Koska ohjelmasta puuttuu kaikki asemakohtaiset asetukset näkymän pitäisi olla tämän näköinen

### 1.2 Valitse OK

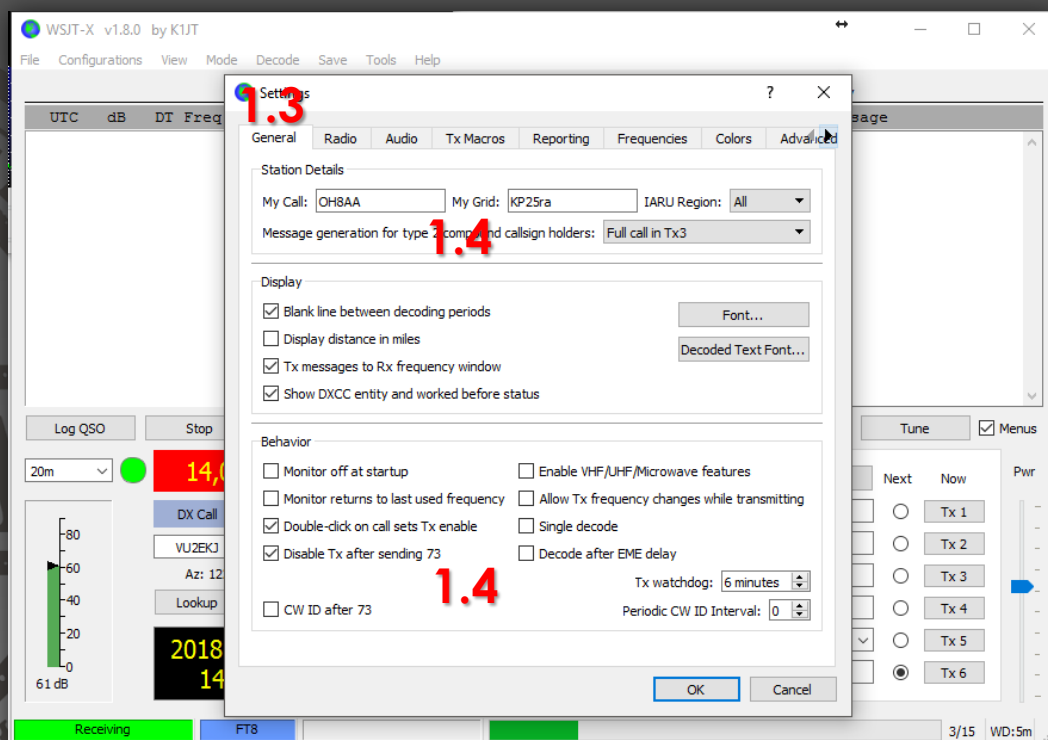


# WSJT-X Konfigurointi

## Vaihe 1 – Ohjelman konfigurointi

1.3 Tarkista että olet  
GENERAL välilehdellä.

1.4 Syötä oman asemasi  
tiedot ja tarkista että olet  
valinnut samat optiot kuin  
kuvassa.





# WSJT-X Konfigurointi

## Vaihe 1 – Ohjelman konfigurointi

1.5 Siirry RADIO välilehdelle.

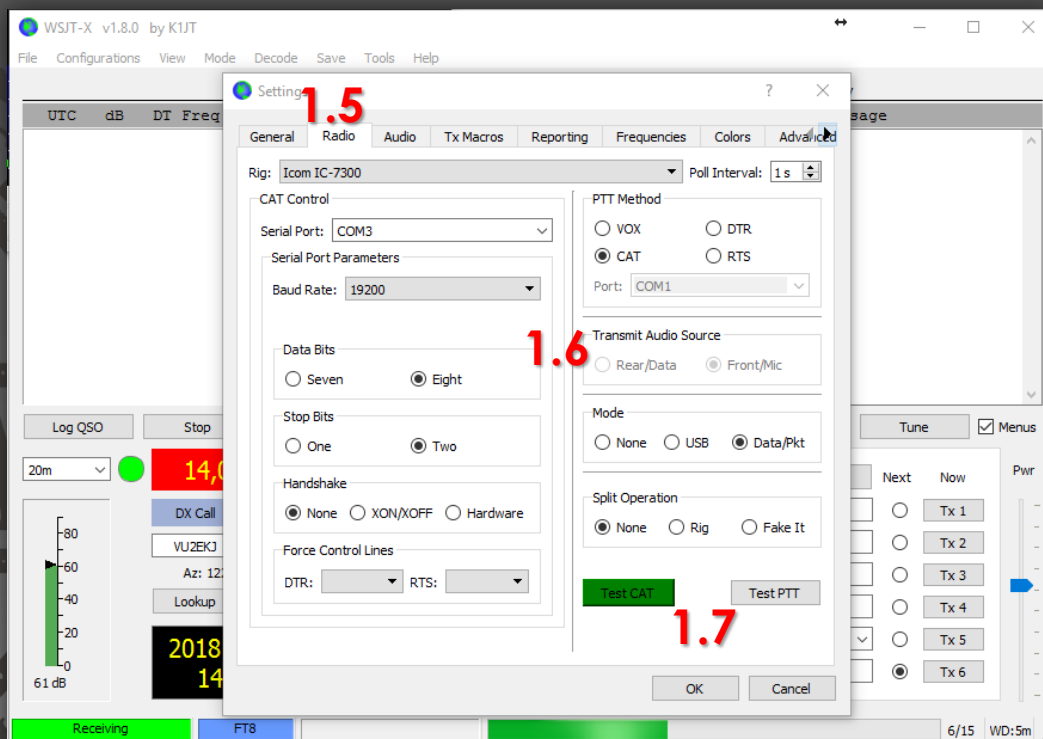
1.6 Tarkista että asetukset vastaavat oman radiosin asetuksia.

Kuvassa ovat kerhoaseaman asetukset

Rig: Icom 7300  
SerialPort: COM3  
BaudRate: 19200  
PTT Method: CAT  
Mode: Data/PKT

1.7 Testaa asetukset TEST

CAT ja TEST PTT painikkeilla.  
Mikäli radio reagoi – kaikki on kunnossa.

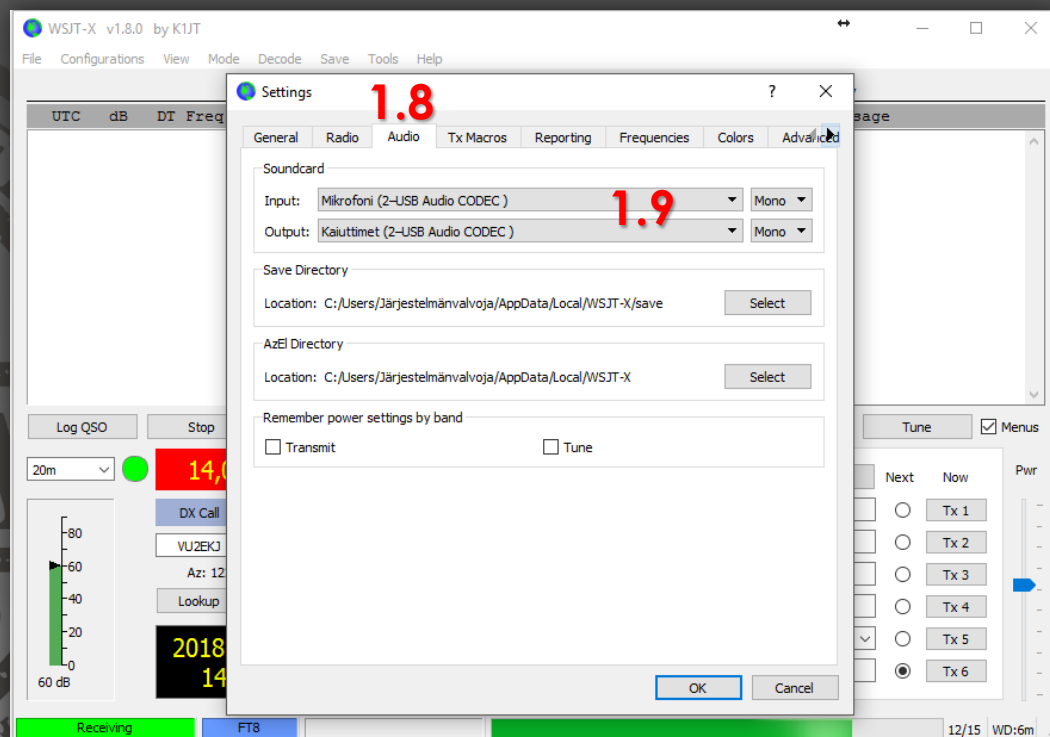


# WSJT-X Konfigurointi

## Vaihe 1 – Ohjelman konfigurointi

1.8 Siirry AUDIO välilehdelle

1.9 Aseta oman  
interfacen/radion  
käyttämän äänikortin  
asetukset.

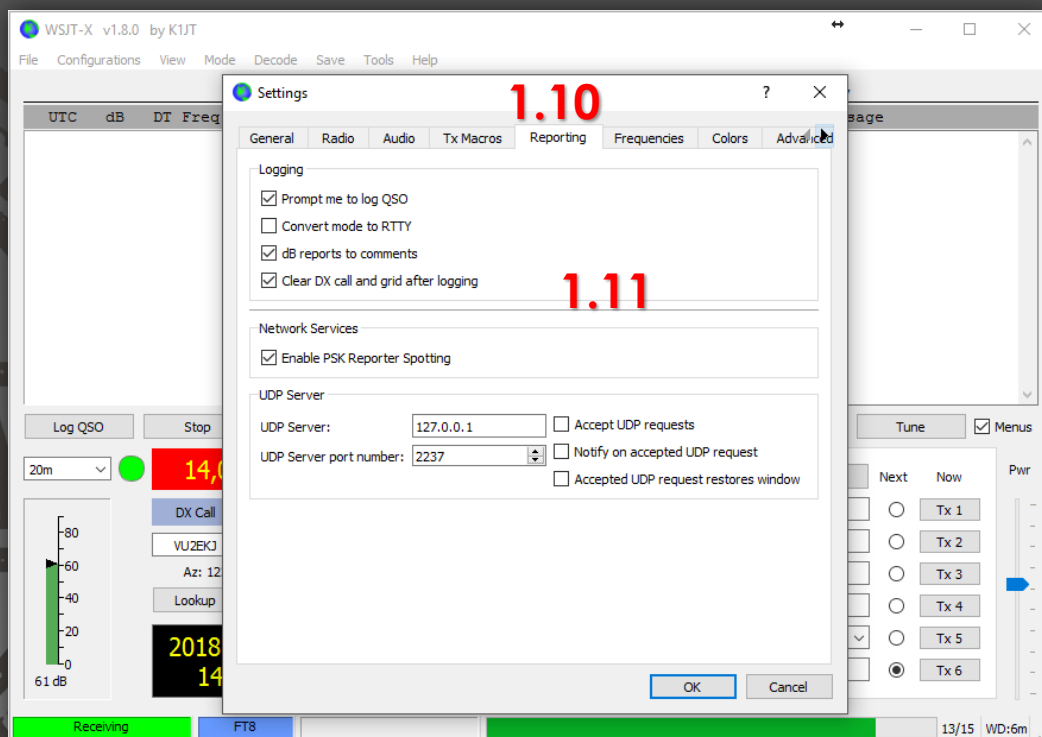


# WSJT-X Konfigurointi

## Vaihe 1 – Ohjelman konfigurointi

### 1.10 Siirry REPORTING välilehdelle

1.11 Valitse **Prompt me to log QSO** (avaa kusun päätteeksi logi-ikkunan) ja oman harkintasi mukaan muut asetukset.



# WSJT-X Konfigurointi

## Vaihe 1 – Ohjelman konfigurointi

Ohjelman konfigurointi valmis. Voit järjestellä näkymän haluamaksesi.

The screenshot displays the WSJT-X software interface, which is used for digital voice communication. The main window is titled "WSJT-X v1.8.0 by KIJT".

**Waterfall Plot (Left):** Shows a frequency spectrum from 400 to 2000 kHz. The vertical axis represents time, with labels from 15:41:30 to 15:46:20m. The plot shows various signals, with a prominent one at approximately 7.074 MHz.

**Message Log (Center):** Displays a list of received and transmitted messages. The columns are UTC, dB, DT, Freq, and Message. The messages are color-coded (green for received, yellow for transmitted).

UTC	dB	DT	Freq	Message
155345	-15	0.0	1340	~
155345	-7	0.1	1557	~ CQ RUS EW3DU
155345	-15	0.7	1731	~ CQ R26A0J KN96
155345	-8	0.4	1809	~ CQ R9GM LO89
155345	-10	-0.4	2092	~ A5A RZ3DC KO85
155345	-24	0.4	792	~ JH1APK BD7BS RR73
155345	-23	0.1	1230	~ OE1RWU PA3AGN R+00
155345	-15	0.0	1801	~ CQ UX5IO KN87
155415	-4	-1.2	374	~ VK4COF UX7IN R-14
155415	-9	-0.8	439	~ VU2KPU 407TC JN92
155415	-14	0.1	748	~ CQ R8OD NO14
155415	-6	0.1	867	~ OHSKZ IK3FUS 73
155415	-3	0.1	1237	~ YC3BLJ RA4LY -09
155415	-16	0.0	1340	~ CQ EA1ABT IN73
155415	-7	0.1	1557	~ CQ RUS EN3DU
155415	-5	0.4	1808	~ YC2T1M R9GM -06
155415	-9	-0.0	2081	~ CQ UA4SBZ LO36
155415	-18	0.2	790	~ A5A G3YRC JO02
155415	-14	0.1	1802	~ CQ UX5IO KN87
155430	-4	0.3	549	~ CQ OESUKW JN88
155430	-12	0.3	630	~ UX7IN VK4COF RRR
155430	-7	0.1	747	~ R8OD DG1FBA JO30
155430	-3	0.0	967	~ OH3HPV PD8DX 73
155430	0	0.2	1104	~ CQ R7IN LN35
155430	-2	0.1	1231	~ OE1DMB OE1RWU -10
155430	-4	0.6	1478	~ CQ RV9CW MO06
155430	-2	0.1	1643	~ CQ OZ4GD JO65
155430	-5	1.0	1801	~ UX5IO RA6HLJ LN05
155430	-13	0.1	1891	~ CQ YF7SPN OI67
155430	-9	0.7	716	~ EA7GWD EA1ARJ IN73

**Rx Frequency (Right):** Shows a list of received frequencies and messages, similar to the message log but with a different set of data.

UTC	dB	DT	Freq	Message
154700	-12	0.1	1632	~ OM2WX EB5CS 73
154915	-24	0.4	791	~ CQ DX BD7BS OL69
154939	Tx	791	~ BD7BS OH8AA KP25	
155000	Tx	791	~ BD7BS OH8AA KP25	
154945	-24	0.4	791	~ BH8NRL BD7BS -02
155000	-15	-0.3	792	~ BD7BS SF7IIX JO92
155015	-20	0.4	791	~ BH8NRL BD7BS RR73
155101	Tx	791	~ BD7BS OH8AA KP25	
155130	Tx	791	~ BD7BS OH8AA KP25	
155115	-20	0.4	792	~ CQ DX BD7BS OL69
155200	Tx	791	~ BD7BS OH8AA KP25	
155230	Tx	791	~ BD7BS OH8AA KP25	
155215	-20	0.4	792	~ BH8TXK BD7BS RR73
155245	-24	0.4	792	~ CQ DX BD7BS OL69
155330	Tx	792	~ BD7BS OH8AA KP25	
155400	Tx	792	~ BD7BS OH8AA KP25	
155345	-24	0.4	792	~ JH1APK BD7BS RR73
155415	-18	0.2	790	~ A5A G3YRC JO02

**Control Panels (Bottom):** Includes a "Log QSO" button, a "Monitor" button (highlighted in green), and a "Decode" button. The frequency display shows 7,074 000 kHz. The call sign display shows "2018 huhti 10 15:54:56". The "Generate Std Msgs" panel shows a list of messages to be transmitted, including "BD7BS OH8AA KP25", "BD7BS OH8AA -24", "BD7BS OH8AA R-24", "BD7BS OH8AA RRR", "BD7BS OH8AA 73", and "CQ OH8AA KP25".



# FT8 mode

## Vaihe 2 – FT8 mode

2.1 Valitse ylävalikosta Mode ja FT8

2.2 Valitse haluamasi bandi

2.3 Kone alkaa dekoddaamaan lähetteitä RX ikkunaan

2.4 Valitse AutoSeq ja Call 1st aktiiviseksi

AutoSeq tarkoittaa sitä että kone osaa viedä manuaalisesti aloitettua kutsua eteenpäin.

The screenshot shows the WSJT-X v1.8.0 interface. At the top, the 'Mode' dropdown is set to 'FT8'. The 'Band' dropdown is set to '20m'. The 'Call 1st' checkbox is checked. The 'Auto Seq' checkbox is also checked. The 'Message' window shows a list of decoded messages with columns for UTC, dB, DT, Freq, and Message. The 'Message' window is split into two panes, showing messages from various stations including RD7KFD, CQ 9N1AA, CQ 9M2TO, and others. The 'Log QSO' window shows a list of QSOs with columns for UTC, dB, DT, Freq, and Message. The 'Log QSO' window is also split into two panes, showing QSOs from various stations including RD7KFD, CQ 9N1AA, CQ 9M2TO, and others. The 'Log QSO' window has a 'Monitor' button and a 'Call 1st' checkbox. The 'Log QSO' window also has a 'Generate Std Msgs' button and a 'Next' button. The 'Log QSO' window has a 'Tx even/1st' checkbox and a 'Tx ← Rx' button. The 'Log QSO' window has a 'Rx ← Tx' button and a 'Hold Tx Freq' checkbox. The 'Log QSO' window has a 'Report -16' button and a 'Lookup' button. The 'Log QSO' window has an 'Add' button and a 'Report -16' button. The 'Log QSO' window has a 'Call 1st' checkbox and a 'NA' button. The 'Log QSO' window has a 'Content' button. The 'Log QSO' window has a 'Receiving' button and a 'FT8' button. The 'Log QSO' window has a 'Last Tx: 9M2TO OH8J KP25' button. The 'Log QSO' window has a '8/15 WD:6m' button.

UTC	dB	DT	Freq	Message
124000	1	1.7	1607	RD7KFD I3QDK JN65
124000	-17	0.6	339	CQ 9N1AA NLZ7 ~Nepal
124000	-11	0.4	853	A92AA G3YIM IO90
124000	-12	-0.4	1050	CQ BD2RJ PM08 ~China
124000	1	0.7	1192	J56TMM UT7IS KN98
124000	-7	0.3	1435	CQ RA9IL M027 ~IAS Russia
124000	-21	0.3	1082	EA2I K3WW RR73
124000	-15	0.6	1147	T88XH DJ5TD -09
124015	-16	0.6	873	CQ HS2NSN OK03 ~Thailand
124015	-4	0.3	107	BG1REN YO6LA -14
124015	-9	0.3	250	CQ IZ3AAT JN55 ~Italy
124015	-18	-0.7	513	UF5F IK0SIV 73
124015	-22	0.2	566	CQ 9M2TO OJ05 ~W. Malaysia
124015	-16	0.0	623	T88XH DL9MRF JO52

UTC	dB	DT	Freq	Message
125000	-5	-0.4	1022	CQ BD2RJ PM08
125020	Tx		1022	BD2RJ OH8J KP25
125045	Tx		1022	BD2RJ OH8J KP25
125030	-24	0.2	1269	BV1EP DL3XAC JO53
125115	Tx		1203	BD2RJ OH8J KP25
125145	Tx		1203	BD2RJ OH8J KP25
125130	-20	-0.6	814	UA3THJ P5ONL RRR
125515	-16	0.2	665	CQ 9M2TO OJ05
125540	Tx		640	9M2TO OH8J KP25
125545	-18	0.2	666	CQ 9M2TO OJ05
125600	Tx		640	9M2TO OH8J KP25
125615	-21	0.2	666	CQ 9M2TO OJ05
125645	-20	0.2	667	CQ 9M2TO OJ05
125700	-16	1.4	667	9M2TO OE7XWI JN57

# FT8 mode

## Vaihe 2 – FT8 mode

2.4 Tuplaklikkaa haluttua asemaa joka "huutaa" CQ. Kone vastaa asemalle seuraavalla mahdollisella syklillä. Kone menee **Enable TX** tilaan. Lähetysten voi perua **HaltTX** napilla.

2.5 Lähetysten aikana tarkkaile oman rigisi ALC tasoa. Säädä ALC niin että se juuri ja juuri kurkkii alkupäässä. Säädön voit tehdä **PWR** sliderista.

The screenshot shows the WSJT-X v1.8.0 interface. The top window is a waterfall plot titled 'WSJT-X - Wide Graph' showing frequency activity from 500 to 2500 kHz. A red '1' is placed over a signal at approximately 14.074 MHz. The bottom window is the main interface titled 'WSJT-X v1.8.0 by K1JT'. It features a menu bar, a 'Band Activity' table, and a 'Log QSO' table. A red '2.4' is placed over the 'Enable Tx' button in the 'Log QSO' table. A red '2.5' is placed over the 'PWR' slider in the 'Log QSO' table. The 'Log QSO' table shows the following data:

UTC	dB	DT	Freq	Message	Rx Frequency				
133315	1	0.4	2044	LZ2HV DJ5TD -11	133100	1	0.3	837	SM4MI R4CI IO31
133315	-6	0.1	1121	CQ DX R6WA LN32 ~EU Russia	133100	-8	0.8	834	CQ F4GWN JO10
133315	-16	0.4	2202	RN1CN YB8SFE 73	133100	-4	0.3	2291	CQ DX JH3CUL FM74
133315	-8	0.1	2271	UN6G UR6ISV KN98	133125	Tx		2291	JH3CUL OH8J KP25
133315	-22	-0.0	2439	N3QE SQ7CL 73	133145	Tx		2291	JH3CUL OH8J KP25
133315	-5	0.1	2577	R9JT MIALY IO80	133200	-5	0.3	2291	CQ DX JH3CUL FM74
133315	4	0.8	2690	SP1TJ IZ4RCQ RR73	133215	0	-0.1	2291	JH3CUL DG3BD JO30
133315	-5	0.1	2002	OH8J HB9DQV -06	133215	-21	0.2	1903	CQ SV5BYP KM46
133315	2	0.1	404	CQ ON3CQ JO21 ~Belgium	133233	Tx		1903	SV5BYP OH8J KP25
133315	-7	0.1	540	JH3CUL G4XBG IO90	133300	Tx		1903	SV5BYP OH8J KP25
133315	-18	0.6	863	CQ ON2TKW JO21 ~Belgium	133245	4	0.1	2002	CQ HB9DQV JN47
133315	-18	0.5	941	TA4LYL OE1TOA JN88	133303	Tx		2002	HB9DQV OH8J KP25
133315	-9	1.2	2062	SP6QKS JA1BJI PM95	133330	Tx		2002	HB9DQV OH8J KP25
133315	-3	0.3	2684	T88XH 9A5CW -14	133315	-5	0.1	2002	OH8J HB9DQV -06
133315	-10	0.1	526	BD2RJ HB9EKJ JN46	133330	Tx		2002	HB9DQV OH8J R-05

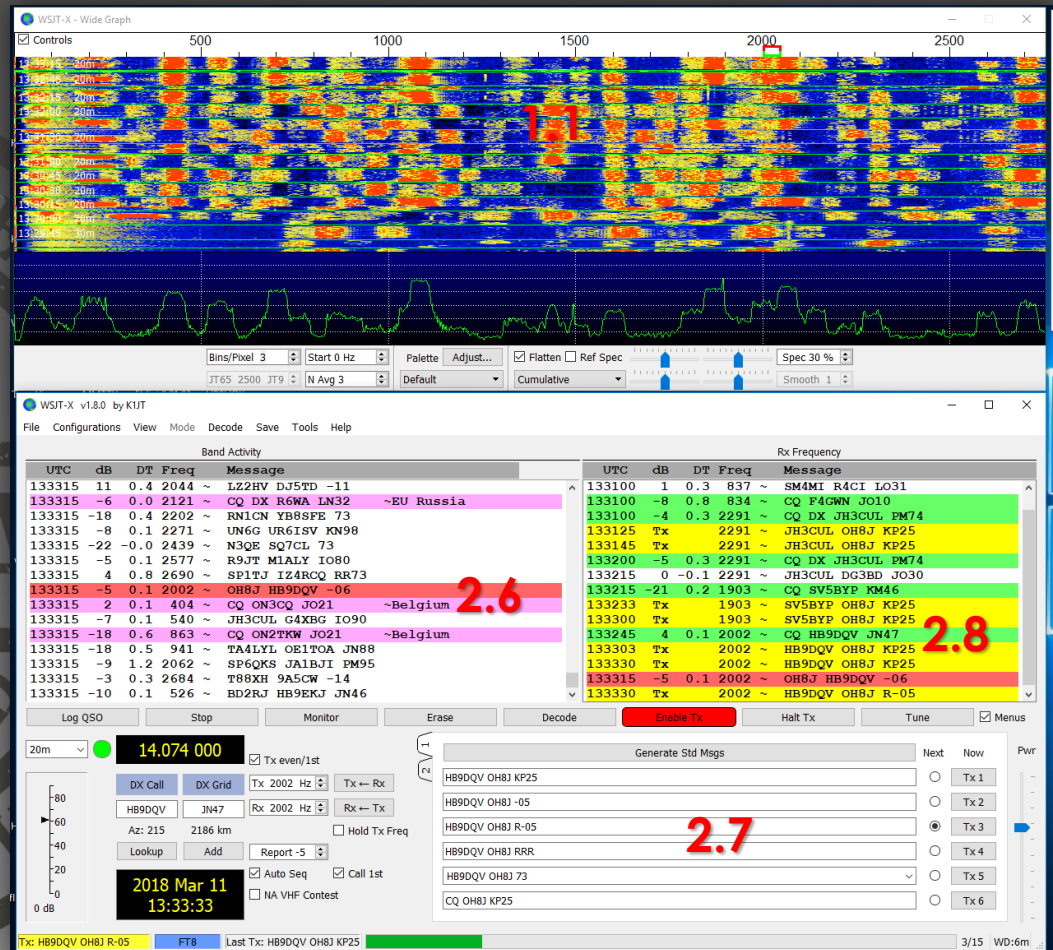
# FT8 mode

## Vaihe 2 – FT8 mode

2.6 Vasta-asema kuuli vastauksesi ja vastaa takaisin omalla signaaliraportillaan.

2.7 Koneesi vaihtaa automaattisesti oikean vastauksen riippuen vasta-aseman sanomasta. Valvo että vastaus on oikea.

2.8 Kusun edistymistä voit seurata tästä ikkunasta





# FT8 mode

## Vaihe 2 – FT8 mode

2.9 Kusun lopussa aukeaa automaattisesti logi-ikkuna. Mikäli ei – voit avata sen LOG QSO napista.

The screenshot shows the WSJT-X software interface. The top window, titled "WSJT-X - Wide Graph", displays a waterfall plot with a green signal trace. The bottom window, titled "WSJT-X v1.8.0 by K1JT", shows a log of received QSOs. A dialog box titled "2.9" is open, prompting the user to confirm the following QSO: HB9DQV JN47. The dialog includes fields for Call, Start, End, Mode, Band, Rpt Sent, Rpt Rcvd, Grid, Name, Tx power, and Comments.

UTC	dB	DT	Freq	Message	UTC	dB	DT	Freq	Message	
133415	-20	0.3	1428	PD7RF JK1LSE PM96	133125	Tx	2291	~	JH3CUL OH8J KP25	
133415	-5	0.3	1581	EALDAL GU7DAI RRR	133145	Tx	2291	~	JH3CUL OH8J KP25	
133415	-6	0.8	1785	VE3ARF R7KRB -24	133200	-5	0.3	2291	~	CQ DX JH3CUL PM74
133415	13	0.3	1847	JH2DFJ OM4JMV -18	133215	0	-0.1	2291	~	JH3CUL DG3BD JO30
133415	-8	0.3	1913	WBVS UR61SV KN98	133215	-21	0.2	1903	~	CQ SV5BYP KM46
133415	0	4.0	2043	LZ2HV DJ5TD -11	133233	Tx	1903	~	SV5BYP OH8J KP25	
133415	-9	0.2	2121	CQ DX R6WA LN32	133300	Tx	1903	~	SV5BYP OH8J KP25	
133415	-14	0.1	2201	CQ YB8SFE PJ21	133245	4	0.1	2002	~	CQ HB9DQV JN47
133415	-21	0.3	2410	CQ GW0DSJ IO83	133303	Tx	2002	~	HB9DQV OH8J KP25	
133415	-3	0.4	2683	T88XH 9A5CW -14	133300	Tx	2002	~	HB9DQV OH8J KP25	
133415	-9	1.6	391	F4GWN R9AA MO04	133315	-5	0.1	2002	~	HB9DQV OH8J R-06
133415	-10	0.2	745	CQ DX PH9HB JO21	133330	Tx	2002	~	HB9DQV OH8J R-05	
133415	-11	0.9	2689	CQ IZ4RCC JN54	133345	4	0.3	2003	~	OH8J HB9DQV RR73
133415	-23	1.0	2338	WALT	2002	~	HB9DQV OH8J 73			
133415	-20	0.5	2629	UR5R	0.2	2003	~	CQ HB9DQV JN47		



# FT8 mode

## Vaihe 3 – Kusun vaiheet FT8 modella

- 3.1 Vastaa HB9DQV aseman CQ kutsuun omalla lokaattorillani
- 3.2 HB9DQV vastaa signaaliraportilla
- 3.3 Vastaa Roger ja oman signaaliraporttini R-05
- 3.4 HB9DQV kiittää RogerRoger 73
- 3.5 Vastaa 73

133233	Tx		1903	~	SV5BYP OH8J KP25	
133300	Tx		1903	~	SV5BYP OH8J KP25	
133245	4	0.1	2002	~	CQ HB9DQV JN47	(Tupla Klik)
133303	Tx		2002	~	HB9DQV OH8J KP25	
133330	Tx		2002	~	HB9DQV OH8J KP25	3.1
133315	-5	0.1	2002	~	OH8J HB9DQV -06	3.2
133330	Tx		2002	~	HB9DQV OH8J R-05	3.3
133345	4	0.3	2003	~	OH8J HB9DQV RR73	3.4
133400	Tx		2002	~	HB9DQV OH8J 73	3.5
133415	0	0.2	2003	~	CQ HB9DQV JN47	
133445	0	0.0	2004	~	CQ HB9DQV JN47	