QSY feature in WSJT-X

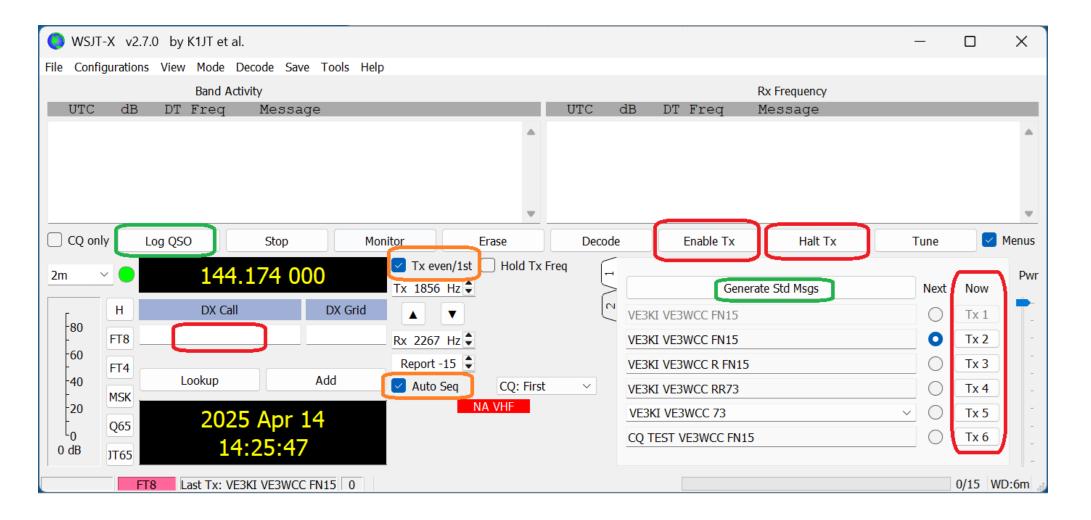
Richard Ferch, VE3KI

21 April 2025

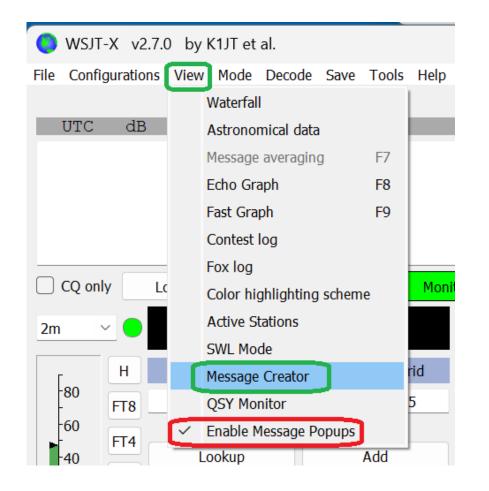
Passing a station to other bands

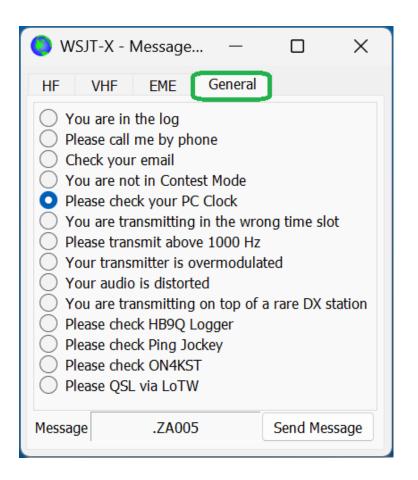
- Involves asking the other station to QSY to a band/frequency you specify
 - In a multi-op, may also involve notifying another operator at your station
- Particularly important for rovers and for stations making contact with rovers
- Easy in SSB and CW, but until now not very feasible in WSJT modes
- Beginning with version 2.7.0, WSJT-X has added a feature to facilitate asking the other station to QSY

First, some WSJT-X things to be aware of

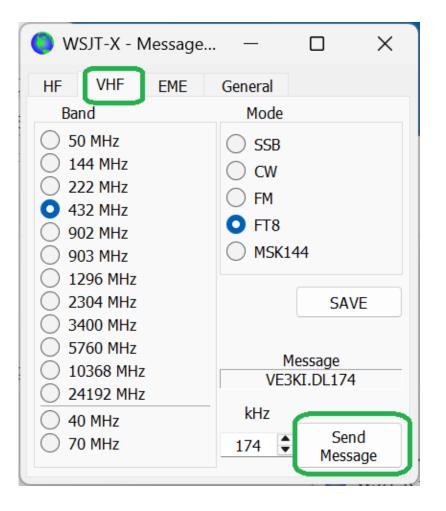


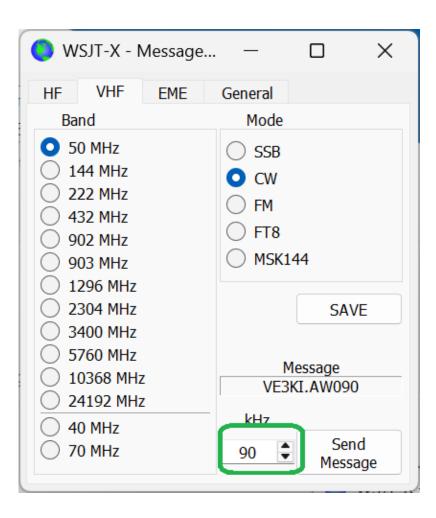
Setting Up the QSY Feature



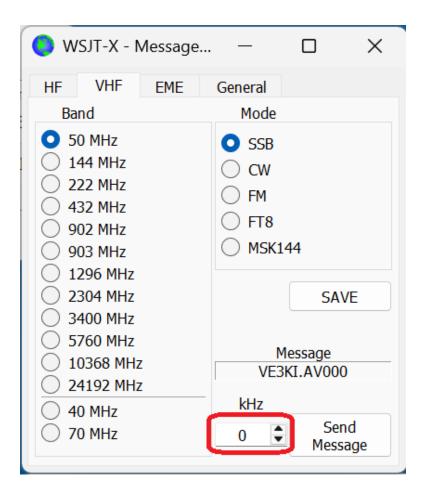


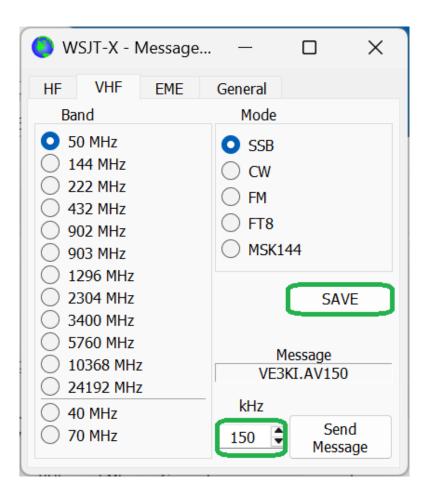
Message Creator Window





6m SSB





2m FM

😑 wsjt-:	K - Messag	je —	(×
HF VH	IF EME	General			
Band		Mode			
🔵 50 МН	z	◯ SSB			
O 144 MI		◯ cw			
0 222 M		O FM			
0 432 MI		FT8			
0 902 M		O MSK1	44		
0 1296 N	1Hz				
O 2304 N		Region 2 M	1Hz	CAVE	
O 3400 N		146	•	SAVE	
0 5760 N			Messa	-	
0 24192		VE	3KI.B	6520	
0 40 MH	Z	kHz			
70 мн	Z	520	•	Send	
			~	Messag	

Settings		?	×
General Radio Audio Tx Macros Reporting Frequencies Colors Ad	lvanced		
Station Details			
My Call: VE3WCC My Grid: FN15XG AutoGrid IARU	Region:	Region 2	$\overline{}$
Message generation for type 2 compound callsign holders: Full call in Tx3			~
Display			
Start new period decodes at top	F	ont	
Blank line between decoding periods	Decodor	d Text Font	51
Display distance in miles	Decoded	I Text Fond	
Tx messages to Rx frequency window			
Show DXCC, grid, and worked-before status 🗌 Show principal prefix instead of country	name		
Highlight DX Call in message Highlight DX Grid in message			
Behavior			
Monitor off at startup Enable VHF and submode features			
Monitor returns to last used frequency Allow Tx frequency changes while transmitting	g		
Double-click on call sets Tx enable Single decode			
Disable Tx after sending 73 📃 Decode after EME delay			
Calling CQ forces Call 1st			
Alternate F1-F6 bindings Tx wat	tchdog: (5 minutes	▲ ▼
CW ID after 73 Periodic	CW ID In	terval: 0	•
	ОК	Can	cel

Log Prompt Setting

General Radio Aud	io Tx Macros	Reporting	Frequenci	es Colors Advanced	
Logging					
Prompt me to log QSC	5			Op Call:	
Log automatically (cor	itesting only)				
Convert mode to RTT	Y				
dB reports to commen	ts				
Clear DX call and grid	after logging				
Network Services					
Enable PSK Reporter S	potting		Use TCP/I	IP connection	
UDP Server					
UDP Server:	127.0.0.1			Accept UDP requests	
UDP Server port number:	2237				
Outgoing interfaces:	loopback_0		~	Notify on accepted UDP requ	lest
Multicast TTL:	1			Accepted UDP request restored	res windov
Secondary UDP Server (de	precated)				
Enable logged contact	ADIF broadcast				
Server name or IP address	: 127.0.0.1				
Server port number:	2333				

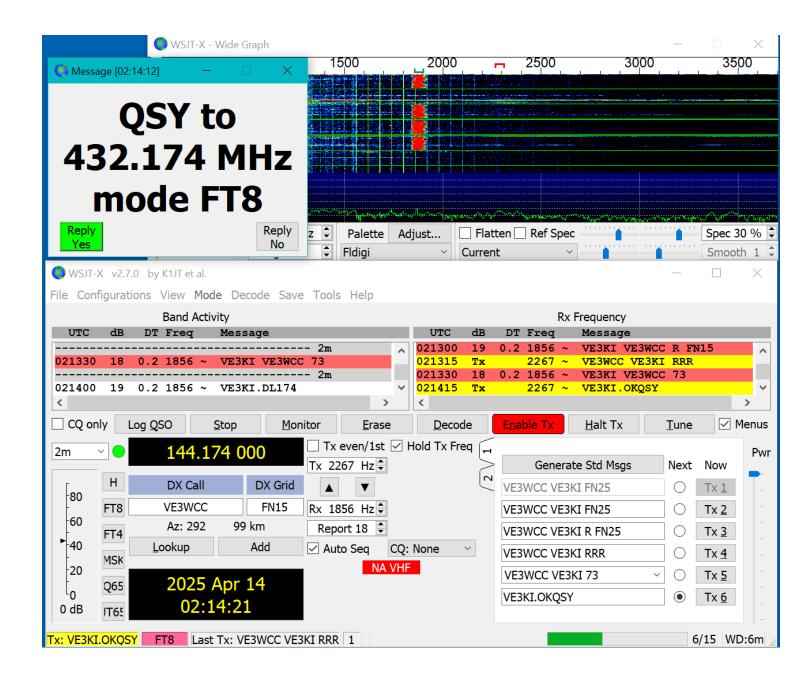
Contest Mode Setting

Settings				? ×
General Radio Audio Tx Macros Re JT65 VHF/UHF/Microwave decoding parameters	eporting	Frequencies Co Miscellaneous	lors Advanced	
Random erasure patterns: <u>6</u> Aggressive decoding level: <u>0</u> Two-pass decoding		Degrade S/N of .way Receiver bandwidth: Tx delay: Tone spacing X 2 Waterfall spectra O Low sidelobes	file: 0.0 dB 2500 Hz 0.2 s x 4 Most sensit	tive
Special operating activity Fox SuperFox mode	Он	ound		
OTP Key: Interval 1 🗘	Sh	ow OTP messages O		
EU VHF Contest		RL Field Day Roundup	FD Exch FT RU Exch	
🔘 WW Digi Contest		RRL Digi Contest		
O Q65 Pileup	<mark>~</mark> co) with individual contest	name Contest name	e: TEST
			ОК	Cancel

QSO and Request for QSY

HF VHF EME	Conoral	🔽 Contro	1000	10	00	- 2000		2500		30	000	
Band	General Mode	02:13:45										1
S0 MHz	SSB	02:13:15	The second s									
0 144 MHz	O CW	02:12:45	2m									
O 222 MHz	O FM	02:12:15	2m									
• 432 MHz	O FT8	02:12:00										
 902 MHz 903 MHz 	MSK144	The second se	2m									
1296 MHz		02:11-30	THE REAL PROPERTY AND ADDRESS OF THE PARTY O									
O 2304 MHz	SAVE	02:11:15	AND A DESCRIPTION OF A							_		
3400 MHz			2111									
 5760 MHz 10368 MHz 	Message											
24192 MHz	VE3KI.DL174	molatingue	Manna whith	alley we wanted	A marge all way	ntapashanahadatanaat		renergyanser	maanandaa	tokogotosatokan	anna maria	siv∕∿q
0 40 MHz	kHz											
70 MHz	174 Send Mess ge	Bins/Pixel 4	Start 500 H	Hz 🗘 Palette	Adjust	Flatten	Ref Spec				Spec 3	0 9
	(1.059 Age	Split 2500	Hz 🗘 N Avg 2	Default	~	Current	~			11111	Smoot	h
		ge 2m C VE3KI FN25	_	02123 02124	0 Tx 5 32 -0.			VE3WCC	N25			
lle Configurations View UTC dB DT 021245 32 -0.0	v Mode Decode Save Band Activity Freq Messag 2267 ~ VE3WCC	ge 2m		 02123 	0 Tx 5 32 -0. 0 Tx 5 34 -0. 0 Tx	1856 ~	Message CQ TEST VE3WCC V	VE3WCC VE3KI F SWCC F VE3KI F SWCC 7				
ile Configurations Viev UTC dB DT 021245 32 -0.0	v Mode Decode Save Band Activity Freq Messag 2267 ~ VE3WCC 2267 ~ VE3WCC	ge 2m C VE3KI FN25 2m	Erase	 02123 02124 02130 02131 02133 02140 	0 Tx 5 32 -0. 0 Tx 5 34 -0. 0 Tx	1856 ~ .0 2267 ~ 1856 ~ .0 2267 ~ 1856 ~	Message CQ TEST VE3WCC V VE3KI VE VE3WCC V VE3KI VE	VE3WCC VE3KI F 3WCC R 23WCC 7 23WCC 7 174	FN25 FN15 RR 73			Me
Ie Configurations View UTC dB DT 021245 32 -0.0 021315 34 -0.0 CQ only Log QS	v Mode Decode Save Band Activity Freq Messag 2267 ~ VE3WCC 2267 ~ VE3WCC 30 Stop	ge 2 VE3KI FN25 2 WE3KI RRR C VE3KI RRR Monitor	Erase Tx even/1st	e Det	0 Tx 5 32 -0. 0 Tx 5 34 -0. 0 Tx 0 Tx	1856 ~ .0 2267 ~ 1856 ~ .0 2267 ~ 1856 ~	Message CQ TEST VE3WCC V VE3KI VE VE3WCC V VE3KI VE VE3KI.DI	VE3WCC VE3KI F 3WCC R 23WCC 7 23WCC 7 174	FN25 FN15 RR 73	5		
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Ie Configurations View UTC dB DT 021245 32 -0.0 021315 34 -0.0 021315 34 -0.0 021315 04 -0.0 021315 04 -0.0 021315 04 -0.0 021315 04 -0.0 0216 04 -0.0 0217 04 -0.0 021315 04 -0.0 021315 04 -0.0 021315 04 -0.0 021315 04 -0.0 021315 04 -0.0 021315 04 -0.0 021315 04 -0.0 021315 04 -0.0 021315 04 -0.0 021315 04 -0.0 0214 04 -0.0 0215 04 -0.0 04 04 -0.0 05 04 -0.0 04 05 -0.0 05	v Mode Decode Save Band Activity Freq Messag 2267 ~ VE3WCC 2267 ~ VE3WCC 2267 ~ VE3WCC 50 Stop 144.174 00 DX Call	ye VE3KI FN25 VE3KI RRR VE3KI RRR Monitor DX Grid FN25 Rx	Tx even/1st	e Det	0 Tx 5 32 -0. 0 Tx 5 34 -0. 0 Tx 0 Tx ecode VE3KI V VE3KI V	1856 ~ 0 2267 ~ 1856 ~ 0 2267 ~ 1856 ~ 1856 ~ Enotie Tx Gener /E3WCC FN15	Message CQ TEST VE3WCC V VE3KI VE VE3KI VE VE3KI VE VE3KI DI Halt	VE3WCC VE3KI F 3WCC R 23WCC 7 23WCC 7 174	FN25 FN15 RR 73	une Next	Now Tx 1 Tx 2	
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Received QSY Message

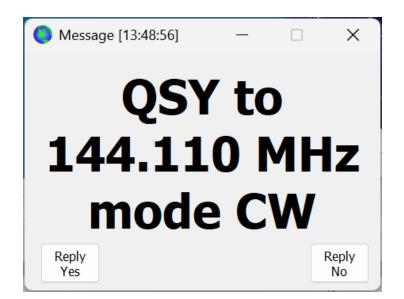


Reply

	🔇 WSJT-X - Wide Graph					
HF VHF EME General	Contro 1000	1500	2000	2500	30	000
Band Mode	02:14:15 2m			<u> </u>		
◯ 50 MHz ◯ SSB	02:13:45 2m			3		
○ 144 MHz ○ CW ○ 222 MHz ○ TH	02:13:15 2m 02:12:45 2m					
O 432 M	Construction of the local division of the lo			1		
902 Message [02:14:26] -						
 903 № 1296 					-	
2304						
0 1036						
OK						
	Start 500 Hz	Palette Ad	just Flatten	Ref Spec		Spec 30
5		Default	 Current 		<u> </u>	Smooth
(S) WSJT					_	
File Configurations View Mode Decode Save I	ools Help					
Band Activity			1	Rx Frequency		
UTC dB DT Freq Message		UTC (dB DT Freq I	Message		
00104E 00 0 00C7 IPDHCC I				CQ TEST VE3WC		
021245 32 -0.0 2267 ~ VE3WCC V	VE3KI FN25	021245	32 -0.0 2267 ~ 1	VE3WCC VE3KI	C FN15 FN25 R FN15	
021245 32 -0.0 2267 ~ VE3WCC V 021315 34 -0.0 2267 ~ VE3WCC V	7E3KI FN25 2m 7E3KI RRR	021245 3 021300 5 021315 3	32 -0.0 2267 ~ 1 Tx 1856 ~ 1 34 -0.0 2267 ~ 1	VE3WCC VE3KI : VE3KI VE3WCC I VE3WCC VE3KI I	FN25 R FN15 RRR	
	/E3KI FN25 2m /E3KI RRR 2m	021245 3 021300 5 021315 3 021330 5	32 -0.0 2267 ~ 1 Tx 1856 ~ 1 34 -0.0 2267 ~ 1 Tx 1856 ~ 1	VE3WCC VE3KI VE3KI VE3WCC I	FN25 R FN15 RRR	
021315 34 -0.0 2267 ~ VE3WCC V	/E3KI FN25 2m /E3KI RRR 2m	021245 3 021300 5 021315 3 021330 5	32 -0.0 2267 ~ 1 Tx 1856 ~ 1 34 -0.0 2267 ~ 1 Tx 1856 ~ 1	VE3WCC VE3KI VE3KI VE3WCC 1 VE3WCC VE3KI 1 VE3KI VE3WCC ⁽	FN25 R FN15 RRR	M
021315 34 -0.0 2267 VE3WCC V 021415 33 -0.0 2267 VE3KI.OF CQ only Log QSO Stop	VE3KI FN25 2m VE3KI RRR CQSY Monitor Erase	021245 021300 021315 021330 021400 Decode	32 -0.0 2267 ~ Tx 1856 ~ 34 -0.0 2267 ~ Tx 1856 ~ \\ Tx 1856 ~ \\ Tx 1856 ~ \\ Tx 1856	VE3WCC VE3KI VE3KI VE3WCC I VE3WCC VE3KI I VE3KI VE3WCC VE3KI.DL174	FN25 R FN15 RRR 73	2 M
021315 34 -0.0 2267 ~ VE3WCC V 021415 33 -0.0 2267 ~ VE3KI.0k	VE3KI FN25 2m VE3KI RRR CQSY Monitor Erase	021245 3 021300 1 021315 3 021330 1 021400 1 Decode	32 -0.0 2267 ~ Tx 1856 ~ 34 -0.0 2267 ~ Tx 1856 ~ Tx 1856 ~ Enable Tx	VE3WCC VE3KI VE3KI VE3WCC I VE3WCC VE3KI I VE3KI VE3WCC VE3KI.DL174	FN25 R FN15 RRR 73	Mow
021315 34 -0.0 2267 VE3WCC VE3WCC 021415 33 -0.0 2267 VE3KI.OK CQ only Log QSO Stop 2m • 144.174 000 r H DX Call	VE3KI FN25 2m VE3KI RRR QSY Monitor Erase ▼ Tx even/1st □ Hold Tx F	021245 021300 021315 021330 021400 Decode	32 -0.0 2267 ~ Tx 1856 ~ 34 -0.0 2267 ~ Tx 1856 ~ Tx 1856 ~ Enable Tx	VE3WCC VE3KI VE3KI VE3WCC I VE3KI VE3WCC VE3KI VE3KI VE3WCC V Halt Tx	FN25 R FN15 RRR 73 Tune	
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ZE3KI FN25 2m ZE3KI RRR QSY Monitor Erase Tx even/1st Hold Tx F Tx 1856 Hz ↓ DX Grid	021245 3 021300 1 021315 3 021330 1 021400 1 Decode	32 -0.0 2267 ~ 1 Tx 1856 ~ 1 34 -0.0 2267 ~ 1 Tx 1856 ~ 1 Tx 1856 ~ 1 Enable Tx Genera VE3KI VE3WCC FN15	VE3WCC VE3KI VE3KI VE3WCC I VE3KI VE3WCC VE3KI VE3KI VE3WCC V Halt Tx	FN25 R FN15 RRR 73 Tune Next	Now Tx 1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ZE3KI FN25 2m ZE3KI RRR CQSY Monitor Tx even/1st Tx 1856 Hz ↓ DX Grid FN25 Rx 2267 Hz ↓ Report 32 ↓	021245 3 021300 1 021315 3 021330 1 021400 1 Decode	32 -0.0 2267 ~ 1 Tx 1856 ~ 1 34 -0.0 2267 ~ 1 Tx 1856 ~ 1 Tx 1856 ~ 1 Enable Tx Genera VE3KI VE3WCC FN15 VE3KI VE3WCC FN15	VE3WCC VE3KI VE3KI VE3WCC I VE3KI VE3WCC VE3KI VE3KI VE3WCC V Halt Tx	FN25 R FN15 RRR 73 Tune Next	Now Tx 1 Tx 2
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ZE3KI FN25 2m ZE3KI RRR 2m QSY Monitor Erase Zara Tx even/1st Hold Tx F Tx 1856 Hz ↓ DX Grid FN25 Rx 2267 Hz ↓ Report 32 ↓ dd ✓ Auto Seq CQ: First	021245 021300 021315 021315 021400 021400 Decode	32 -0.0 2267 ~ 1856 ~ 1 1856 ~ 1 1856 ~ 1 1856 ~ 1 1856 ~ 1 Enable Tx General VE3KI VE3WCC FN15 VE3KI VE3WCC RN15 VE3KI VE3WCC R73	VE3WCC VE3KI VE3KI VE3WCC I VE3KI VE3WCC VE3KI VE3KI VE3WCC V Halt Tx	FN25 R FN15 RRR 73 Tune Next	Now Tx 1 Tx 2 Tx 3 Tx 4
021315 34 -0.0 2267 VE3WCC V 021415 33 -0.0 2267 VE3KI.OK CQ only Log QSO Stop 2m Item of the state of the sta	ZE3KI FN25 2m ZE3KI RRR 2m QSY Monitor Erase Zara Tx even/1st Hold Tx F Tx 1856 Hz ↓ DX Grid FN25 Rx 2267 Hz ↓ Report 32 ↓ dd ✓ Auto Seq CQ: First	021245 021300 021315 021315 021400 021400 Decode	32 -0.0 2267 ~ Tx 1856 ~ 34 -0.0 2267 ~ Tx 1856 ~ Tx 1856 ~ Tx 1856 ~ Enable Tx Genera VE3KI VE3WCC FN15 VE3KI VE3WCC RN15 VE3KI VE3WCC RR73 VE3KI VE3WCC 73	VE3WCC VE3KI VE3KI VE3WCC I VE3KI VE3WCC VE3KI VE3KI VE3WCC V Halt Tx	FN25 R FN15 RRR 73 Tune Next 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Now Tx 1 Tx 2 Tx 3 Tx 4 Tx 5

QSY and Reply Message Boxes

VE3KI.BW110 sent to VE3KI from ?



VE3KI.NOQSY sent by VE3KI to ?



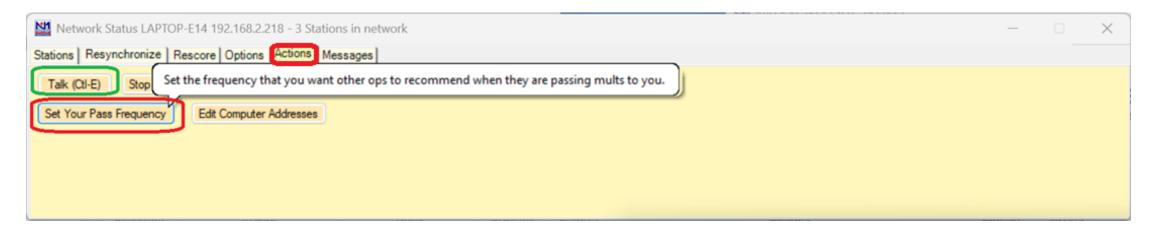
N1MM+ Network Status Window

The network status window displays both your Pass frequency (the frequency you want stations passed to you to be sent to) and your current operating frequency (in S&P mode, that might be the Run frequency of the station you are currently working):

Network Status LAPTOP-	NTV6K329 192.168.2.240	- 3 Stations in net	work									- 0	×
Stations Resynchronize Re	escore Options Actions	Messages											
Computer	IP Address	Pass	Run	10	100	Freq	0р 🔺	Msg	Send	Re	м	Band	R/M 🛟
VE3KI	192.168.2.22	432110.00	Run	0	0	432110.00	VE3KI		0k	Ok		420	1
LAPTOP-E14	192.168.2.218	50313.00	Run	0	0	50313.00	VE3IAY		0k	0k		50	1
LAPTOP-NTV6K329	192.168.2.240	144215.00	S&P	0	0	144205.00	VE4AE0		0k	0k		144	1
		\square				\square							

Setting your Pass Frequency

- When in Run mode, your CQ frequency is your pass frequency
- When in S&P mode, use the button in the Actions tab to set your pass frequency (or use the Alt+Z keyboard shortcut):



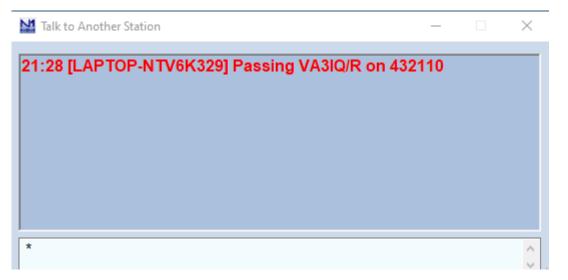
Alerting the operator being passed to

• Right-click anywhere in the line for the operator you are passing the other station to and select the first option from the list:

Network Status LAPTOP-NTV6K329	9 192.168.2.240 - 3 Station	s in network							- 🗆	×
Stations Resynchronize Rescore Op	tions Actions Messages									
Computer IP Ad	dress P	ass Run 10	100 Fr	eq Op	🔺 Msg	Send	Re	м	Band	R/M 🛟
VE3KI 192.10	68.2.22 432	Pass Current/Last QSO				0k	Ok		420	1
LAPTOP-E14 192.10	68.2.218 50				Y	0k	0k		50	1
LAPTOP-NTV6K329 192.10	68.2.240 144	Talk			D	0k	Ok		144	1
		Call for Help								
		Show Connection Log								
		Target for Call Stacking	1							

What the other operator sees

• The operator being passed to sees a message in the Talk window and/or in the Info window:



- You can also send ad lib messages via the Talk window (Ctrl+E)
 - Private messages: use second item in the menu (previous slide)

503	313.00 U	ISB Manu	ual - VFO A	Op	: VE3IAY												
File	Edit	View	Tools Co	nfig	Windo	w Help											
CW	PH	DIG				Snt		Rcv	Grid								
6m 2m	6m 2m	6m 2m	VA3	EQ,	/ R	59	99	599	FN2	5							
1.25m	1.25m	1.25m	• •	0	Run O	S&P D	upe										
70cm	70cm	70cm	F1 S&P C		F2 Exch	F3 Spare	E I	VE3KI	F5 His Call	F6 Spare							
33cm	33cm	33cm		32													
23cm	23cm	23cm	F7 Rpt	20	F8 Agn?	F9 Zone) Spare	F11 Spare	F12 Wipe	Į						
			Esc: S	top	Wipe	Log It	Edit	Mark	Store S	ot It QRZ							
						50° Re	ev 24			R							
			Grid H	ldg	FN25 (50° Re		1° 4	4 mi 5	R en enabl	ec						
			Grid H	ldg	FN25 (50° Re		1° 4	4 mi 5		.ec						
VE: NA -	-> CANAL	DA, Zn 4	Grid H	ldg	FN25 (50° Re		1° 4	4 mi 5								
and the second			Grid H	ldg ist	FN25 (ory U	50° Re serText	t app	1° 4 ears	4 mi 5	en enabl							8
202		17:31:19	Grid H Call H	ldg ist	FN25 (ory Us	50° Re serText	t app	1° 4 ears 4/4	4 mi S here wh	en enabl		Pts	M1	Computer		 Mode	_
202 MM - DI	25-04-21	17:31:19	Grid H Call H	ldg nist FQS(Ca	FN25 (ory Us	50° ReserText	t app n.s3db	-1° 4 ears 4/4 eq Sr	4 mi S here wh	en enabl 24 Grid		Pts 2	M1	Computer VE3KI	Op VE3KI		_
MM-DI 04-14	25-04-21 D HH:	17:31:19 MM 14	Grid H Call H	Idg ist FQSC Ca VE	FN25 (cory Us O Party (Ju all	50° Re serText ine) - ham 432	t app as3db Fre	1° 4 ears 4/4 ≥q Sr 00 59	4 mi S here wh nt Rcv	en enabl 24 Grid FN24			M1			Mode	_
MM-DI 04-14 04-14	25-04-21 D HH: 4 21:	17:31:19 MM 14 15	Grid H Call H	Idg ist FQSC Ca VE VE	FN25 (ory Us 0 Party (Ju 11 3KG 3XRA	50° Re serText Ine) - ham 432 432	t app as3db Fre 2110.0	1° 4 ears 4/4 ≥q Sr 00 59	4 mi S here wh nt Rcv 99 599	en enabl 24 Grid FN24		2	~	VE3KI	VE3KI VE3KI	Mode CW	
MM-DI 04-14 04-14	25-04-21 D HH: 4 21: 4 21:	17:31:19 MM 14 15	Grid H Call H	Idg ist FQSC Ca VE VE	FN25 (ory Us O Party (Ju 11 3KG	50° Re serText Ine) - ham 432 432	t app as3db Fre 2110.0	1° 4 ears 4/4 ≥q Sr 00 59	4 mi S here wh nt Rcv 99 599	en enabl 24 Grid FN24 FN25		2 2	~	VE3KI VE3KI	VE3KI VE3KI	Mode CW CW	_
MM-DI 04-14 04-14 04-14	25-04-21 D HH: 4 21: 4 21:	17:31:19 MM 14 15 19	Grid H Call H	F QSC Ca VE VE VA	FN25 (ory Us 0 Party (Ju 11 3KG 3XRA	50° Re serText (Ine) - ham (432) (432) (144)	t app as3db Fre 2110.0	1° 4 ears 4/4 2°q Sr 00 59 00 59	4 mi 5 here wh nt Rcv 99 599 99 599	en enabl 24 Grid FN24 FN25		2 2	~	VE3KI VE3KI	VE3KI VE3KI VE4AE0	Mode CW CW	_

Using N1MM+ to Decide on QSY Requests

- Look at the band buttons in the N1MM+ Entry window. Grey means "dupe", blue or red means workable.
- This doesn't work so well for rovers. You will probably need to use the N1MM+ Log window to see what bands a rover has been worked on from their current location (for fixed station operators), or to see what bands the other station has been worked on from your current location (for rover operators).
- If you are operating in FT8/FT4/..., use the capability in the first part of this presentation to ask the other station to QSY, then if you are operating in a multi-op, you can use the Network window or Talk window to alert your fellow operator.