

<b>20220929 TROUBLESHOOTING keystroke fixes for interaction of (WINLINK EXPRESS)(IC7300)(VARA HF program)</b>			
assumption for this troubleshooting is physical side (Radio/Antenna system/cables/PS) are fully functional and RF path is good			
NOTE: <b>VARA HF session</b> refers to launching from Winlink Express program			
NOTE: <b>VARA HF P2P session</b> refers to launching from Winlink Express program			
NOTE: <b>VARA HF</b> program is independent program launched when a Winlink VARA session is opened			
<b>SEE WINLINK MODES.XLS for proper operator settings of winlink</b>			
<b>SYMPTOM</b>	<b>WHERE to look</b>	<b>WHAT to check</b>	<b>HOW to fix</b>
NO TX AUDIO (PTT & Freq OK)	Winlink HF Vara program	wrong comm port?	identify comm port using Device Manager\Ports
NO TX AUDIO	VARA\Settings\Sound Card\Settings\Radio\Setup	Drive Level 1/3 ALC on 7300	VARA sound card slider
NO TX AUDIO	Windows Speaker Out	Spkr icon & manage audio	set for 100%
NO TX AUDIO	VARA\Settings\Sound Card	Device output	USB audio codec selected
NO TX AUDIO	IC7300 [MENU][SET][CONNECTOR]	USB MOD LEVEL	default at 50%
NO PTT	Winlink HF Vara program\Settings\Radio Setup	Radio Control Port	identify correct COM port using Windows Device Manager\Ports
NO PTT	Winlink HF Vara program\Settings\Radio Setup	PTT port	Icom 7300 (NOT OPTIONAL must use drop down menu and select)
NO PTT	Winlink HF Vara program\Settings\Radio Setup	Icom Address	94
NO PTT	Winlink HF Vara program\Settings\Radio Setup	USB Digital	[x]
NO PTT	Winlink HF Vara program\Settings\Radio Setup	Radio Model	Icom 7300
NO PTT	Winlink HF Vara program\Settings\Radio Setup	Baud	19200
NO PTT	Winlink HF Vara program\Settings\Radio Setup	VARA\Sound Card	tap [TUNE] on / off
NO PTT after any update	Winlink HF Vara program\Settings\Radio Setup	check all "NO PTT" Radio Setup	
NO PTT first time Windows update	Icom website for driver update last resort	current driver for 7300	install new driver only needed to do this one time so far
NO CONNECT pTp	IC7300	Frequency	same as other ham
NO CONNECT pTp	IC7300	USB-D	data mode
NO CONNECT pTp	VARA HF\Settings\Sound Card	RF power/SWR/Antenna	VARA HF\settings\sound card [TUNE] check power/SWR
NO CONNECT pTp	VARA HF\Settings\Sound Card	Drive Level 1/3 ALC on 7300	VARA HF\settings\ sound card slider for 1/3 ALC on [TUNE]
NO CONNECT pTp	VARA HF P2P Session	call sign	correct callsign
NO CONNECT pTp	VARA HF P2P Session	center frequency	verify with other station
NO CONNECT pTp	VARA HF P2P Session	program launched correctly	verify bandwidth/radio/com port/baud & "ready"
NO CONNECT pTp	VARA HF P2P Session	bandwidth	bw should be [500]
NO CONNECT pTp	VARA HF\Settings\VARA Setup	accept 500hz connections	[X] confirm other end is set to accept 500hz connections
NO CONNECT pTp	Winlink Express	confirm VARA HF P2P pgm	easily confused with "VARA HF Winlink" program
NO CONNECT pTp	destination station	is other station in pTp mode	confirm both stations are in pTp mode
NO CONNECT WINLINK & pTp	TX audio good but Winlink doesn't respond	<b>IC7300 RIT</b>	adjust RIT to zero
NO CONNECT WINLINK & pTp	TX audio good but Winlink doesn't respond	<b>IC7300 Pass Band Tuning</b>	press PBT hold to clear and reset bw
NO RX VU meter	Winlink HF Vara program\Settings\Radio Setup	check for TX control	tap [TUNE] on / off & chk CODEC selected
NO RX VU meter	IC7300	squelch on	must be unsquelched
NO RX VU meter	VARA\Settings\Sound Card	device input	USB audio codec selected
NO RX VU meter	Windows Mic in level	window manage audio	recording level 100
NO CONNECT Gateway	VARA HF Winlink Session	channel selection	download current table / select Gateway / Start connection
NO CONNECT Gateway	IC7300	USB-D	change mode on 7300 to USB-D
NO CONNECT Gateway	IC7300	RF power/SWR/Antenna	VARA HF\settings\sound card [TUNE] check power/SWR
NO CONNECT Gateway	VARA\Settings\Sound Card	Drive Level 1/3 ALC on 7300	VARA HF\settings\sound card slider for 1/3 ALC on [TUNE]
NO CONNECT Gateway	VARA HF Winlink Session	correct Gateway call	correct callsign

NO CONNECT Gateway	VARA HF Winlink Session	program launched correctly?	verify bandwidth/radio/com port/ baud & "ready"
NO CONNECT Gateway	VARA HF Winlink Session	confirm bw is correct	change to correct bw
NO CONNECT Gateway	Winlink Express	confirm VARA HF Winlink pgm	easily confused with "VARA HF P2P" program
NO CONNECT Gateway	VARA\Settings\VARA Setup	retries 15	set for 15, WH6FG could take 11 or more attempts
NO CONNECT Gateway	Try connecting to a different Gateway	time of day propagation	check WWVH for 5 10 15mhz signal level reference for band
CONNECT GATEWAY no RX message	VARA HF Winlink Session	is call correct upper left	if using multiple calls must have this box correct before connecting
CONNECT GATEWAY no RX message	VARA HF Winlink Session	none sent to you	send a msg to winlink email address from internet to test
CONNECT GATEWAY cannot send msg	Message Type when drafting pTp or Winlink?	outbox chk msg type	if wrong correct it and submit to outbox
CONNECT GATEWAY cannot send msg	VARA HF Winlink Session	is session type same as msg	change session type then attempt connect
NO HIGH SPEED data transfer	VARA\Settings\VARA Setup	VARA call & registration key	shows registered version of Vara TNC that can operate at full speed
NO HIGH SPEED data transfer	VARA HF Winlink Session	after launching VARA HF chk ->	"this is a registerd ver of VARA TNC that can op at full speed"
NO HIGH SPEED data transfer	IC7300	FILTR 1 only should be used	bandwidth is trimmed if you have FILTR 2 or FILTR 3
Cannot connect to gateway but Ping works	gateway side	RMS packet has to launch VARA	take VARA out of start menu