

VARA Protocol Native TNC Commands

These commands are sent using the TCP/IP interface through the 8300 port (by default). And the data stream is sent through the 8301 port (by default).

APPLICATION→VARA

CONNECT Source Destination<cr> (VARA HF and (VARA SAT)

CONNECT Source Destination via Digi1 Digi2<cr> (VARA FM)

LISTEN ON<cr>

Incomming connections enabled.

This command will cause a disconnection if it is received in the middle of a VARA connection

LISTEN OFF<cr> (by default)

Incomming connections disabled

This command will cause a disconnection if it is received in the middle of a VARA connection

MYCALL Call1 Call2 Call3 Call4 Call5<cr>

Set current call sign (maximum 5 call signs). Legitimate call signs include from 3 to 7 ASCII characters (A-Z, 0-9) followed by an optional “-” and an SSID of -1 to -15, -T, and -R.

DISCONNECT<cr>

Disconnect the link, once the TX buffer is empty.

ABORT<cr>

Disconnect the link immediately. (dirty disconnect)

COMPRESSION OFF<cr>

Compression disabled

COMPRESSION TEXT<cr> (by default)

Huffman compression enabled, designed for type text information. Recommended for Winlink.

COMPRESSION FILES<cr>

Compression designed for File transfers

BW500<cr> (VARA HF)

Set VARA HF to 500Hz Narrow mode

BW2300<cr> (VARA HF) (by default)

Set VARA HF to 2300Hz Standard mode

BW2750<cr> (VARA HF)

Set VARA HF to 2750Hz Tactical mode

CHAT ON<cr>

Optimizes VARA timing for using with chat type apps like VARA Chat, VarAC, vARIM

Listen then CQ Frames

Support high latency to connect two FlexRadio: SDR<->SDR

Infinite Idle loop. Allows both stations to be in sync forever, until the path dies

Send the SN command for each data block received.

Optimize the handover interchange for keyboard to keyboard.

This command should not be used with Winlink or B2F protocol apps.

Includes the LISTEN ON command

CHAT OFF<cr>

Optimize the handover interchange for Winlink, B2F protocol, BBS, etc...

Limited Idle Loops. Avoid the stations stay connected forever in a loop.

Latency limited according Trimode Scan time of 4 seconds. Only one Flexradio can be used in the link: SDR<->Analog Rig or Analog Rig<->SDR

CQFRAME Source BW<cr> (VARA HF)

CQFRAME Source<cr> (VARA SAT)

CQFRAME Source Digi1 Digi2 <cr> (VARA FM)

Send a CQ frame. Useful for type chat apps.

WINLINK SESSION<cr> (By default) (VARA HF and VARA SAT only)

VARA send retries following a 4.0 seconds cycle, necessary to connect with the RMS Gateways (DWELL time 4s)

P2P SESSION<cr> (VARA HF and VARA SAT only)

Set the retrie cycle to 4.6 seconds to allow connecting two SDR's at maximum latency (worst case)

This command must be used for P2P connections, not for Gateways connections.

VARA→APPLICATION

CONNECTED Source Destination BW<cr> (VARA HF)
CONNECTED Source Destination <cr> (VARA SAT)
CONNECTED Source Destination via Digi1 Digi2 BW<cr> (VARA FM)

DISCONNECTED<cr>
Session closed by either end

PTT OFF<cr>
Order for switching PTT OFF

PTT ON<cr>
Order for switching PTT ON

BUFFER Bytes<cr>
Reports number of bytes in transmit buffer queue. Sent when VARA adds data to queue or VARA removes acked bytes from queue

PENDING<cr>
Indicates to the host application a Connect Request has been detected. This provides an early warning to the host that a connection may be in process so it can hold any scanning activity.

CANCELPENDING<cr>
Indicates to the host that Connect Request could not be completed. This allows the Host to resume scanning.

BUSY OFF<cr>
Free channel

BUSY ON<cr>
Busy channel

REGISTERED Call<cr>
Call sign registered in VARA

LINK REGISTERED<cr>
The client station is registered in VARA

LINK UNREGISTERED<cr>
The client station is not registered in VARA

IAMALIVE<cr>
Sent every 60 seconds

MISSING SOUND CARD<cr>
The USB Soundcard driver has crashed (typically due to RF or high SWR on low bands)
The only way to recovery the driver is restarting the PC. This task is for the external application.

CQFRAME Source BW<cr> (VARA HF)
CQFRAME Source<cr> (VARA SAT)
CQFRAME Source Digi1 Digi2 <cr> (VARA FM)
A CQ frame have been decoded. Useful for type chat apps.

SN value<cr>

S/N of the received frame. This command is sent only if the CHAT ON command is active.
(Useful for type chat apps only).

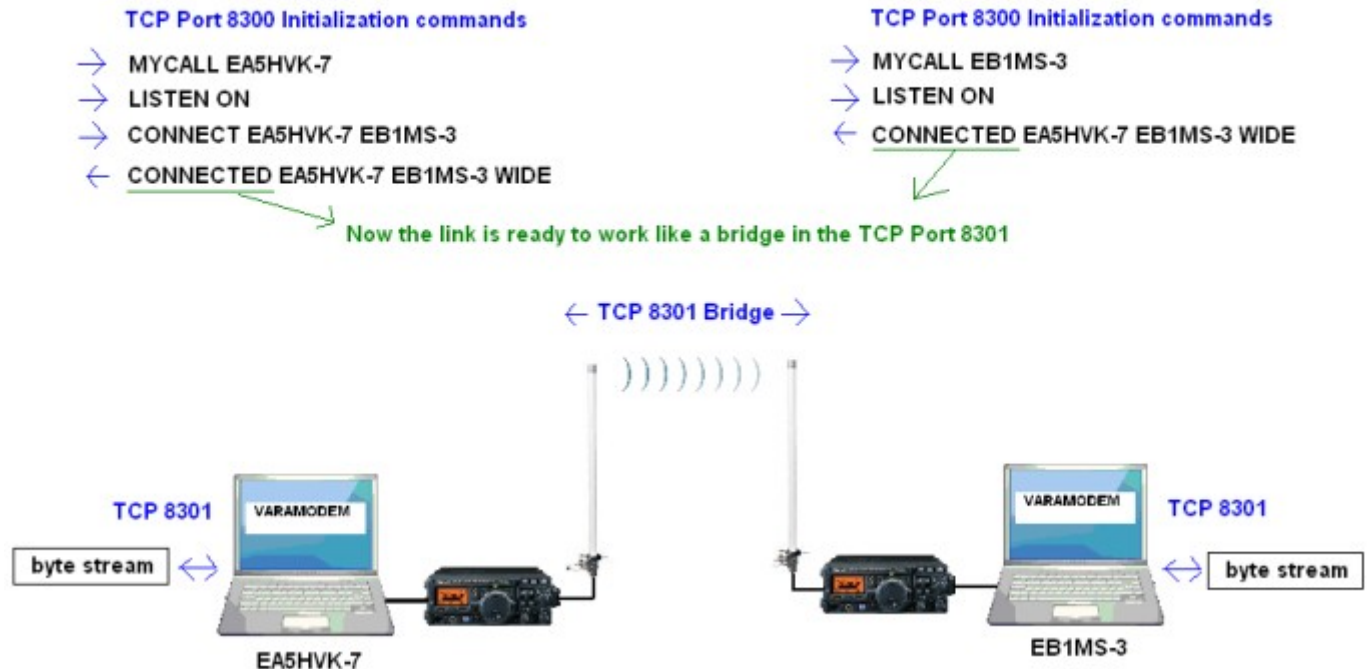
OK<cr>

Response to a received command

WRONG<cr>

Wrong command

VARA BASIC CONFIGURATION



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