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)

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.

LISTEN CQ<cr>
VARA is ready to decode incoming CQ Frames. Useful for type chat apps.

LISTEN ON<cr>
Incomming connections enabled

LISTEN OFF<cr>   (by default)
Incomming connections disabled

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 inmediately. (dirty disconnect)

COMPRESSION OFF<cr>
Compression disabled

COMPRESSION TEXT<cr>   (by default)
Huffman compression enabled, designed for type text information.

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

VARA➔APPLICATION

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

BUSY OFF<cr>
Free channel

BUSY ON<cr>
Busy channel

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.

CONNECTED Source Destination<cr>   (VARA HF and VARA SAT)
CONNECTED Source Destination BW<cr>   (VARA FM direct connection)
CONNECTED Source Destination via Digi1 Digi2 BW<cr>   (VARA FM through Digipeaters)
                    BW in "NARRROW" or "WIDE"

DISCONNECTED<cr>
Session closed by either end

PTT OFF<cr>
Order for switching PTT OFF

PTT ON<cr>
Order for switching PTT ON

IAMALIVE<cr>
Sent every 60 seconds

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

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.

OK<cr>
Response to a received command

WRONG<cr>
Wrong command

Jose Alberto Nieto Ros, EA5HVK
nietoros@hotmail.com
November, 1st 2021