Beginning with version 10.3.9, Commander responds to directives conveyed via TCP/IP messages.

# **TCP/IP** Port

DXLab applications that respond to directives conveyed via TCP/IP messages utilize a block of adjacent ports. By default, port 52000 is the base of this block. DXKeeper responds to messages received via the second port in the block (default: 52001); Commander responds to messages received via the third port in the block (default:52002).

To specify a different block of ports,

- 1. Click the Net Serv button in the Radio panel on Commander's Configuration window
- 2. In the **Network Service** window that appears, specify the **Base Port** of the desired block of ports, and click the **Restart** button

## **Message Format**

Messages are conveyed using ADIF field syntax, e.g.

<FieldName:FieldLength>FieldValue

Every message specifies two fields: the first conveying a command, and the second conveying all parameters

<CommandField><ParameterFields>

<Parameterfields> conveys 0 or more parameters.

Parameters are also conveyed using ADIF field syntax, e.g.

<parameters:33><xcvrfreq:5>14080<xcvrmode:4>RTTY

but frequencies are conveyed using the locally-defined decimal separator.

# Messages accepted by Commander

1. Set RX\* frequency and mode in a manner that works with all supported xcvrs, e.g.

<command:14>CmdSetFreqMode<parameters:56><xcvrfreq:5>14080<xcvrmode:4>RTTY<preservesplita nddual:1>N

Valid modes are (AM, CW, CW-R, DATA-L, DATA-U, FM, LSB, USB, RTTY, RTTY-R, WBFM)

<preservesplitanddual:1>N</preservesplitanddual:1>	means reset Split and reset Dual	
	(default if <preservesplitanddual:1></preservesplitanddual:1>	is n <b>ot present)</b>

<preservesplitanddual:1>Y
means leave Split and Dual unchanged

Commander's QSXMode state variable is set to the specified mode

## 2. Set TX frequency and set Split and set Dual in a manner that works with all supported xcvrs, e.g.

<command:11>CmdQSXSplit<parameters:57><xcvrfreq:5>14085<SuppressDual:1>N<SuppressModeChan ge:1>N

<SuppressDual:1>N means set Dual if the transceiver supports it and Commander is configured to accept "Dual Rcv On"

<SuppressDual:1>Y means don't set Dual

<suppressmodechange:1>N</suppressmodechange:1>	means set the TX Mode to the mode specified by Commander's QSXMode state variable	
	(default if <suppressmodechange:1> is not present</suppressmodechange:1>	

<SuppressModeChange:1>Y means leave the TX Mode unchanged

### 3. Set RX\* frequency, e.g.

<command:10>CmdSetFreq<parameters:17><xcvrfreq:5>21230

## 4. Set TX frequency, e.g.

<command:12>CmdSetTXFreq<parameters:17><xcvrfreq:5>21231

### 5. Set Mode, e.g.

<command:10>CmdSetMode<parameters:7><1:2>CW

Valid modes are (AM, CW, CW-R, DATA-L, DATA-U, FM, LSB, USB, RTTY, RTTY-R, WBFM)

## 6. Set Split, e.g.

<command:8>CmdSplit<parameters:7><1:2>on

<command:8>CmdSplit<parameters:8><1:3>off

## 7. Transmit, e.g.

<command:5>CmdTX<parameters:0>

#### 8. Receive, e.g.

<command:5>CmdRX<parameters:0>

#### 9. Report RX frequency, e.g.

<command:11>CmdSendFreq<parameters:0>

returns a single field in ADIF syntax specifying the RX\* frequency in kilohertz, e.g.

<CmdFreq:10>14,010.500

If the transceiver is not split, the RX frequency is also the TX frequency.

If the transceiver has not reported its RX frequency, the response will be

<CmdFreq:4>.000

#### 10. Report TX frequency, e.g.

<command:13>CmdSendTXFreq<parameters:0>

returns a single field in ADIF syntax specifying the TX frequency in kilohertz, e.g.

<CmdTXFreq:10>14,011.500

If the transceiver is not split, the RX frequency is also the TX frequency.

If the transceiver has not reported its TX frequency, the response will be

<CmdTXFreq:4>.000 11. Report mode, e.g.

<command:11>CmdSendMode<parameters:0>

returns a single field in ADIF syntax specifying the radio's mode, e.g.

<CmdMode:2>CW

Valid modes are (AM, CW, CW-R, DATA-L, DATA-U, FM, LSB, USB, RTTY, RTTY-R, WBFM)

If the transceiver has not reported its mode, the response will be

<CmdMode:0>

12. Report split, e.g.

<command:12>CmdSendSplit<parameters:0>

returns a single field in ADIF syntax specifying the state of the transceiver's split, e.g.

<CmdSplit:3>OFF

or

<CmdSplit:2>ON

#### 13. Direct an Icom transceiver to synchronize its transceiver frequencies

```
<command:11>CmdSyncIcom<parameters:0>
```