**BPQ NODE COMMANDS**

**User Commands**

This document gives basic usage information for each command. There is another (rather old) document [here](http://www.cantab.net/users/john.wiseman/Documents/Commands.htm) which gives a lot of information on interpreting the output of some of the commands.

**General Commands**
These are the commands that a typical user might need.

**?**
Displays a list of commonly used node commands.

**APRSmh**
Display APRS stations heard. The output can be filtered with a port number or partial callsign, eg
APRS 1 or APRS G8

**Attach**
With some ports that only support a single user, such as WINMOR or Pactor, you have to get exclusive control of the port before connecting. Use the ATTACH command for this.

 ATTACH 2
 C Callsign

**Bye**
Disconnect from Node, Same as Quit.

**Connect**
The connect command initiates a connection to another station. To call a station in the Nodes list, enter C Call or C Alias. To call a station not in the Nodes list you have to specify the port, and you can if required specify digipeaters to be used.
If you want to connect on a port that would normally need an ATTACH, you can do the attach and connect in one step by specifying a digipeater of WINMOR or PACTOR. This is mainly for use by software such as Airmail that con connect via digipeaters but can't use a connect script.
Normally the system will make an L4 (NETROM) connect to a call that is in your NODES table. You can force a level 2 connect by specifying a port number and preceeding the call with a !

 Connect to Node or Alias C BPQPMS
 Downlink connect via digis C 2 G8BPQ v DIGI1 DIGI2
 Pactor "Attach and Connect" C 3 G8BPQ v PACTOR
 Force L2 connect to Node C 2 !G8BPQ

The Telnet Server has additional forms of the Connect command. See [Here](http://www.cantab.net/users/john.wiseman/Documents/TelnetServer.htm%22%20%5Cl%20%22Outward%22%20%5Ct%20%22_top)  for details.

**CQ**
Sends a beacon to address CQ. Can only be used in LISTEN mode. See LISTEN command below

**IDLEtime**
Sets the Idle session timeout for this session.

**Info**
Display information about this Node.

**L4t1**
Sets the Level 4 (Netrom) retry timer for this session

**Links**
The LINKS command lists the currently active AX.25 Sessions (Both user access and node-node links)

**LISten port**
Enters Listen mode on the specified port. When in Listen mode you will see a trace of traffic on the port, and the node will accept a connection to your call. The SSID must be inverted in the normal Netrom fashion, so if you connected to the Node as G8BPQ a user has to call G8BPQ-15. You can use the CQ command to send a beacon to indicate that you are listening for calls. While in Listen mode you can't connect to other stations, and if someone calls you Listen is cancelled. Type LISTEN OFF to exit listen mode.

**Mheard port**
Lists stations heard recently on the specified port.

**Nodes**
The NODES command displays information from the NETROM Nodes table. There are a number of options.
N on its own displays the whole table in alias order
N C displays the whole table in callsign order
N T displays round trip time and packet count for all stations that the node has sent packets to.
N CALL or N Alias displays information for the specified call+ssid or alias.
N CALL\* will display imformation for all SSID's of the specified call.
N VIA CALL will display all stations reachable via the specified neighbour.

**NRR Call**
Sends a Netrom Record Route message to the speoified node. If the node is reachable and supports NRR, a message will be displayed showing the path that the message took to the target node and back.

**PAClen**
Sets PACLEN for this session

**PASSWORD**
Enters SYSOP Mode. [See hete](http://www.cantab.net/users/john.wiseman/Documents/Node%20SYSOP.html) for details.

**Ports**
Displays a list of the ports configured on this node.

**Quit**
Disconnect from Node, Same as Bye.

**RADio**
Used by the Rig Control Interface. [See here](http://www.cantab.net/users/john.wiseman/Documents/RigControl.htm) for details.

**Routes**
The ROUTES command lists the nodes that this station has a direct link to (Neighbours).

**Stats**
The STATS command displays a number of counters. S on its own displays the system counter and port counters for the first 7 ports. S P displays ports stats only for the 7 ports starting from P. S S displays just the system counters.

**UNproto**
Enters UNPROTO mode, where you can send UI messages. The command format is UNPROTO Port CALL [Optional Digis]. When in Unproto Mode anything you type will be send as a UI frame to the port and destination you specified. This could be used in conjuction with the LISTEN command to have an multiuser conversation. Use Ctrl/Z to exit UNPROTO mode

**Users**
The USERS command lists the stations currently using the node.

**Version**
Displays the version number of the Node software

**Specialist Commands**
These are the commnds that are more likely to be used by a sysop, but do not require a password.

**AGWstatus**
Displays the status of the AGWPE emulator.

**ARP**
Display the IP ARP Table. Only available if the Node is running the IP Gateway feature.

**AXResolver Port**
Displays the AXIP Resolver table for the specified port.

**AXMheard Port**
Displays the AXIP Heard list for the specified port.

**IPRoute [Filter]**
Display the IP Routing Table. If Filter is specified onyl entries starting with the specified string will be displayed. Only available if the Node is running the IP Gateway feature.

**NAT**
Display the IP NAT Table. Only available if the Node is running the IP Gateway feature.

**PIng a.b.c.d**
Send an ICMP Echo Request ("Ping") to the specified IP Address. Only available if the Node is running the IP Gateway feature.

**TELstatus Port**
Displays the Telnet Server connection status for the specified port.