

HOW TO CREATE A BPQ32 NODE:

I have included an example of my North Plains BPQ32.cfg file that BPQ32 uses to configure the system. I highly recommend that you NOT change any of the Quality settings as they are set to favor the RF Ports over an internet connection. Should you choose to start changing them it could cause BPQ32 internet node connections to be propagated over your RF Port(s) which would be frowned upon if you are connected to an SNOS node.

You will need to access your network router and program it to pass the following ports to make full use of your new BPQ32 node. Also ensure that your BPQ32 node will NOT change its IP address. It is preferred to set it up to use a manual setup as DHCP could change the assigned IP address without your knowledge causing it to break pre-maturely:

UDP 10093 ;Listens for UDP packets on this UDP port number

UDP 10100 ;For the AXIP Port that listens to the internet

TCP 17199 ;NNTP Port

TCP 17110 ;POP3 Port

TCP 17025 ;SMTP Port

TCP 18020 ; 18020 Port number to Telnet into

TCP 18021 ; (1) Can be used old Win FBB BBS (2) BPQTerm.tcp

I highly recommend that you go to Yahoo Groups and join the BPQ32 Group as the link to download the latest version of BPQ32 is located there as well as a lot of group knowledge that has been shared over time. Also be sure to review the documentation that has been included when BPQ32 is installed.

There are two maps on the internet where one shows where the BPQ32 Chat Links are located and the other for where BPQ32 nodes are located by the LOCATOR setting in BPQ32.cfg that matches your Grid Square location:

<http://guardian.no-ip.org/bpqmap/ChatNetwork.htm>

<http://nodemap.g8bpq.net:81/>

If you want to have a reliable internet connection to specific other BPQ32 nodes that have an internet Telnet port setup you can set them up by following the below example of the entries from my North Plains BPQ32 node. Bear in mind that both nodes being connected must be mapped to each other on both nodes for the links to work:

MAP KD6PGI-1 KD6PGI.NO-IP.ORG UDP 10093 B

BE SURE TO HIT SAVE FOR EACH PAGE AFTER EDITING AND BEFORE GOING TO THE NEXT TAB!

Configuration

BBS Params | ISP Interface | Chat Params | Housekeeping | Welcome Messages | Message Filters | WP Update

BBS Call is the base callsign, without SSID. This is not necessarily the same as the Application Callsign defined in the BPQ32 configuration. SYSOP Call is the callsign used by the local console.

The Application Number defines which BPQ32 Application gives access to the BBS. Note this is the APPLNumber [1-32] not an Application Mask, as used in many BPQ32 programs.

The eMail Server Params configure the NNTP, SMTP and POP3 Servers, which allow normal Internet email and News clients to get messages from, and post messages to the BBS. If you don't want to use this, set them to zero.

Enable UI System activates FBB compatible UI broadcasting of Message Headers

BBS Call SYSOP Call Send SYSTEM Msgs to SYSOP call

H Route

Base Directory

BBS Appl Number Streams Refuse Bulls

Enable FBB UI System Send Mail For Beacons Every Minutes

Don't hold messages from new users Forward Messages to BBS Call

eMail Server Params:

NNTP Port POP3 Port SMTP Port Enable Remote Access

DO NOT SETUP THIS PAGE UP AS WE DON'T KNOW WHAT THE LEGAL IMPLICATIONS ARE HERE IN THE US:

Configuration

BBS Params | ISP Interface | Chat Params | Housekeeping | Welcome Messages | Message Filters | WP Update

This page configures the BBS <> Internet Mail Gateway. The Gateway allows local users to send messages to Internet email addresses, and get replies from those messages

The system relies on having an email domain which supports forwarding of all email addresses to a fixed mailbox. For example, I could register domain mycall.org.uk, and have any mail sent to anyone@mycall.org.uk forwarded to mymailbox@myisp.com

WARNING This feature may be illegal in some administrations. Make sure your authorities permit forwarding mail from the Amateur Service before enabling it

Enable Internet Gateway

My Domain

SMTP Server Port

POP3 Server Port

ISP Account Name

ISP Account Password

POP3 Poll Interval [Seconds]

SMTP Server Requires Authentication

CHAT needs to be disabled (Chat Appl Number = 0 to Disable) for most new installations as there are several Chat nodes across the country that support CHAT. I have KB7RSI listed in my nodes list so I connect to LVCHAT using his node. We will need to consult with KD6PGI, Ken Jacobs who is located in Hood River, OR for his recommendation on how to set your new BPQ32 node up for access to CHAT if CHAT is desired:

APPLNumber (1-32) not an Application Mask, as uses in many BPQ32 programs.

The Nodes to link to box defines which other Chat Nodes should be connected to, or from may be accepted. The format is ALIAS:CALL, eg BPQCHT:G8BPQ-4. Note these must be in your NODES table.

The Callsign of the Chat Node is not defined here - It is obtained from the BPQ32 APPLC corresponding to the Chat Appl Number.

Chat Appl Number

Nodes to link to

Just accept the Defaults by pressing Save for this page:

Configuration

BBS Params | ISP Interface | Chat Params | Housekeeping | Welcome Messages | Message Filters | WP Update

Parameters

Maintenance Time (UTC)
Enter as HHMM

Max Message Number

BID Lifetime (Days)

Log File Lifetime (Days)

Delete Log and Message Files to Recycle Bin

Send Non-delivery Notifications for P and T messages

Supress Mailing of Housekeeping Results

Save Registry

Lifetimes

This sets the parameters for deleting old messages. Specify length of time (in days) for messages to be kept before being deleted

Personals

Read

Unread

Forwarded

Not Forwarded

Bulletins

Forwarded

Not Forwarded

The following boxes allow you to specify different values for different Bulletin origins and destinations. Normally these apply to Sent Messages, to apply to unsent, check box below

Specify Call, Lifetime, eg ALL, 10

From

To

At

Apply Overrides to Unsent Bulls

Save

This page is hard to read. It says:

The “&l” is really “& and a lower case L. The other entries are self-explanatory. You can also change what each field says if you want it to be something else:

The screenshot shows a web-based configuration interface for a BBS. The title bar is 'Configuration' and the navigation tabs are 'BBS Params', 'ISP Interface', 'Chat Params', 'Housekeeping', 'Welcome Messages', 'Message Filters', and 'WP Update'. The 'Welcome Messages' tab is active. The page contains four text input fields for different types of welcome messages:

- Normal User Welcome Message:** Hello \$l. Latest Message is \$L. Last listed is \$Z. You have \$X new messages...
- Chat Welcome Message:** NL70M Chat Server. Type /h for help. Bringing up links to other nodes. This may take a minute or two.
- New User Welcome Message:** Hello \$l. Latest Message is \$L. Last listed is \$Z.
- Expert User Welcome Message:** Hello \$l. You have \$X new messages...

Below the fields is a legend for the variables: \$U : Callsign of the user, \$l : First name of the user, \$X Messages for user, \$x Unread messages, \$L : Number of the latest message, \$N : Number of active messages, \$Z : Last message read by user. A 'Save:' button is located at the bottom.

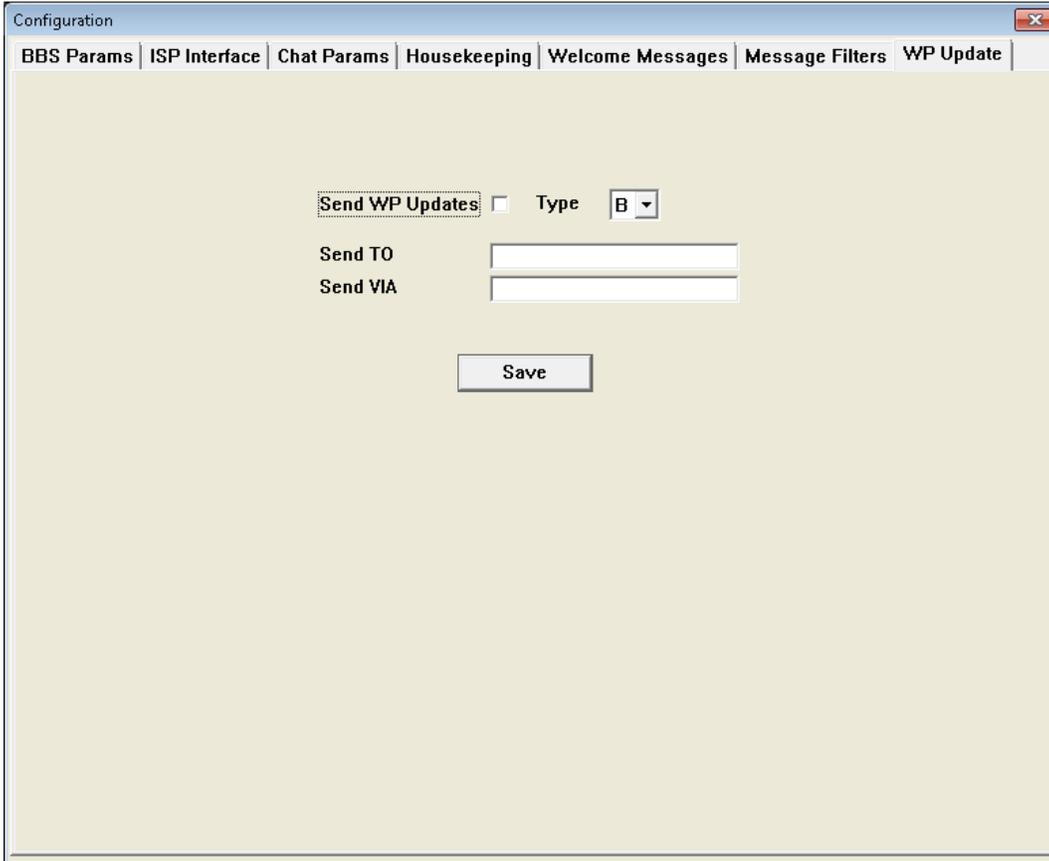
These entries prevent messages containing the below attachments from being Forwarded. Enter them and press Save:

The screenshot shows the 'Message Filtering Setup' page in the same BBS configuration interface. The title bar is 'Configuration' and the navigation tabs are 'BBS Params', 'ISP Interface', 'Chat Params', 'Housekeeping', 'Welcome Messages', 'Message Filters', and 'WP Update'. The 'Message Filters' tab is active. The page is titled 'Message Filtering Setup.' and contains two sections:

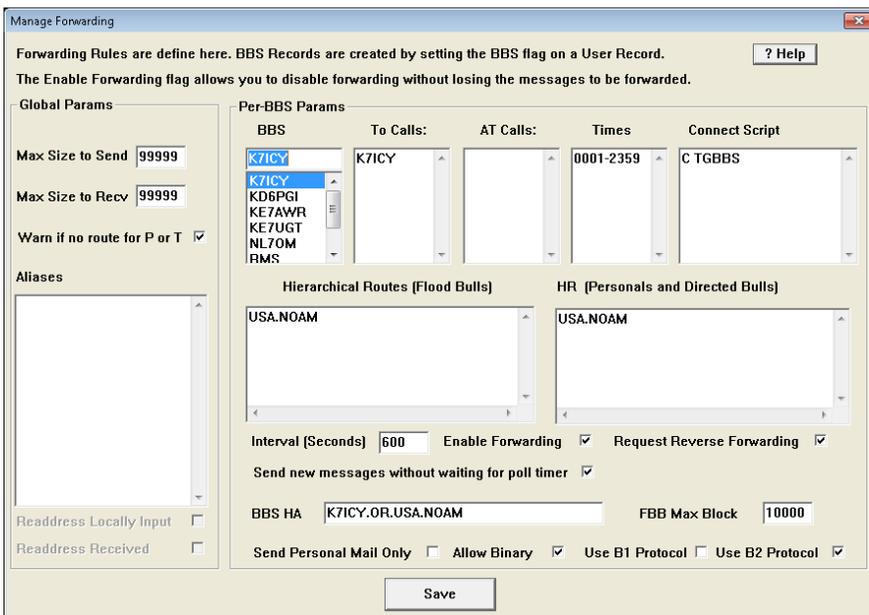
- Reject Messages:** A table with three columns: 'From', 'To', and 'At'. The 'To' column contains the text: PIC, PICTUR, LYRICS, SIGNS.
- Hold Messages:** A table with three columns: 'From', 'To', and 'At', all of which are currently empty.

A 'Save:' button is located at the bottom of the page.

The creator of BPQ32 designed it so that White Pages do NOT get forwarded and synchronized as it is a waste of bandwidth. Each BPQ32 node maintains a User database that it uses to be able to forward packet emails to the correct destination. For specifics please refer to the documentation that the BPQ32 installation provides. Just hit Save and close:



HERE IS AN EXAMPLE OF HOW MY FORWARDING IS SETUP TO THE TIGARD BPQ32 NODE. PLEASE BE AWARE AND **VERY CAREFUL** WITH FLOOD BULLETINS **AS SOME SYSOPS TAKE GREAT OFFENSE** TO RECEIVING INTERNET BASED FORWARDING. In fact you may want to hold off setting up forwarding until you gain some experience with your new SYSOP duties:



Manage Forwarding

Forwarding Rules are define here. BBS Records are created by setting the BBS flag on a User Record. ? Help

The Enable Forwarding flag allows you to disable forwarding without losing the messages to be forwarded.

Global Params

Max Size to Send

Max Size to Recv

Warn if no route for P or T

Aliases

Readdress Locally Input

Readdress Received

Per-BBS Params

| BBS | To Calls: | AT Calls: | Times | Connect Script |
|------------------------------------|------------------------------------|----------------------|--|--------------------------------------|
| <input type="text" value="K7ICY"/> | <input type="text" value="K7ICY"/> | <input type="text"/> | <input type="text" value="0001-2359"/> | <input type="text" value="C TGBBS"/> |

Hierarchical Routes (Flood Bulls)

USA.NOAM

HR (Personals and Directed Bulls)

USA.NOAM

Interval (Seconds) Enable Forwarding Request Reverse Forwarding

Send new messages without waiting for poll timer

BBS HA FBB Max Block

Send Personal Mail Only Allow Binary Use B1 Protocol Use B2 Protocol

You will have to edit and customize the BPQ32.cfg file that gets installed to reflect your call sign and specific statements and settings. Please note that these entries are specific to the Kantronics KPC 9612+ (Channel A = 1200 baud; Channel B = 9600 baud) and when using a KPC3/3+ you would just use Channel A and either Remark out all of the comments pertinent to ChannelB or delete them. If you have a different brand setup is similar and would probably be best for you to review the documentation that was included with the BPQ32 installation.

Be sure to match your IO ADDRESS and SPEED to match your specific hardware for each RF Port that you configure. Most serial ports can handle 19200 or 38400. You don't want to use 9600 as it could cause buffering which will slow down your TNC.

If you have a KPC3 and eventually will use a KPC9612+ you can use a semi-colon to remark out each line for the unused port. That way you just remove the semi-colons when you do upgrade without having to type it all in again later.

EXAMPLE OF NPLAIN BPQ32.CFG:

;BPQ32.CFG File 02/25/2012 NPLAIN

; Updated by WinBPQCFG

/* This begins a multi-line comment

CONFIGURATION FILE FOR BPQ32: G8BPQ SWITCH SOFTWARE

*/ This ends a multi-line comment

LOCATOR=CN85MO ;This entry should reflect your Grid Square Location

NODECALL=NL7OM-1 ; Node callsign

NODEALIAS=NP ;Should be what you want it known as (i.e., HR for Hood River, NP for North Plains, etc...)

IDMSG: ; UI broadcast text from NODECALL to fixed dest ID

NL7OM BPQ Packet Node in North Plains, OR

Port 3 145.750 to VANC

*** ; Denotes end of IDMSG text

BTEXT: ; UI broadcast text from BCALL to destination UNPROTO=

NL7OM BPQ Packet Node in North Plains, OR

*** ; Denotes end of BTEXT text

INFOMSG: ; The INFO command text follows:

Welcome to the NL7OM BPQ Packet Node located in North Plains, OR

You may connect to the following:

NPBBS:NL7OM-2

NPRMS:NL7OM-10

Thanks for visiting.

...73's Courtney NL7OM

*** ; Denotes end of INFOMSG text

CTEXT: ; The CTEXT text follows:

NL7OM Packet Node in North Plains, OR

NPLAIN:NL7OM-1} BBS RMS CONNECT BYE INFO NODES ROUTES PORTS USERS MHEARD

*** ; Denotes end of CTEXT text

FULL_CTEXT=0 ; 0=send CTEXT to L2 connects to NODEALIAS only

; 1=send CTEXT to all connectees

; -----

; Network System Parameters:

OBSINIT=6 ; Initial obsolescence set when a node is included
; in a received nodes broadcast. This value is then
; decremented by 1 every NODESINTERVAL.

OBSMIN=3 ; When the obsolescence of a node falls below this
; value that node's information is not included in
; a subsequent nodes broadcast.

NODESINTERVAL=45 ; Nodes broadcast interval in minutes

IDINTERVAL=10 ; 'IDMSG' UI broadcast interval in minutes, 0=OFF

BTINTERVAL=30 ; The BTEXT broadcast interval in minutes, 0=OFF

L3TIMETOLIVE=25 ; Max L3 hops

L4RETRIES=3 ; Level 4 retry count

L4TIMEOUT=60 ; Level 4 timeout in seconds s/b > FRACK x RETRIES

L4DELAY=10 ; Level 4 delayed ack timer in seconds

L4WINDOW=4 ; Level 4 window size

MAXLINKS=63 ; Max level 2 links

MAXNODES=128 ; Max nodes in nodes table

MAXROUTES=64 ; Max adjacent nodes

MAXCIRCUITS=128 ; Max L4 circuits

MINQUAL=85 ; Minimum quality to add to nodes table; was 100

; INP3 Routing is experimental. The two parms which follow will be ignored

; unless activated in the ROUTES: section.

MAXHOPS=4 ; INP3 hop limit to add to tables

MAXRTT=90 ; INP3 max RTT in seconds

BUFFERS=255 ; Packet buffers - 255 means allocate as many as
; possible, normally about 130, depending upon other
; table sizes.

; TNC default parameters:

PACLEN=236 ; Max packet size (236 max for net/rom)

TRANSDelay=1

/*

PACLEN is a problem! The ideal size depends on the link(s) over which a packet will be sent. For a session involving another node, we have no idea what is at the far end. Ideally each node should have the capability to combine and then refragment messages to suit each link segment - maybe when there are more BPQ nodes about than 'other' ones, I'll do it. When the node is accessed directly, things are a bit easier, as we know at least something about the link. So, currently there are two PACLEN params, one here and one in the PORTS section. This one is used to set the initial value for sessions via other nodes and for sessions initiated from here. The other is used for incoming direct (Level 2) sessions. In all cases the TNC PACLEN command can be used to override the defaults.

*/

; Level 2 Parameters:

; T1 (FRACK), T2 (RESPTIME) and N2 (RETRIES) are now in the PORTS section

T3=180 ; Link validation timer in seconds

IDLETIME=900 ; Idle link shutdown timer in seconds

; Configuration Options:

AUTOSAVE=1 ; Saves BPQNODES.dat upon program exit

BBS=1 ; 1 = BBS support included, 0 = No BBS support

NODE=1 ; Include switch support

HIDENODES=0 ; If set to 1, nodes beginning with a #

; require a 'N *' command to be displayed.

; The *** LINKED command is intended for use by gateway software, and concern

; has been expressed that it could be misused. It is recommended that it be

; disabled (=N) if unneeded.

ENABLE_LINKED=N ; Controls processing of *** LINKED command

; Y = allows unrestricted use

; A = allows use by application program

; N = disabled

```
; -----  
; AXIP port definition.  
  
PORT  
  
PORTNUM=1  
  
ID=AX/IP/UDP  
  
TYPE=EXTERNAL ; Calls an external module  
  
DLLNAME=BPQAXIP.dll ; Uses BPQAXIP.DLL  
  
QUALITY=90 ; Quality factor applied to node broadcasts heard on  
; this port, unless overridden by a locked route  
; entry. Setting to 0 stops node broadcasts  
  
MINQUAL=85 ; Entries in the nodes table with qualities greater or  
; equal to MINQUAL will be sent on this port. A value  
; of 0 sends everything.  
  
MAXFRAME=7 ; Max outstanding frames (1 thru 7)  
  
FRACK=3000 ; Level 2 timeout in milliseconds  
  
RESPTIME=1000 ; Level 2 delayed ack timer in milliseconds  
  
RETRIES=5 ; Level 2 maximum retry value  
  
UNPROTO=ID ; BTEXT broadcast addrs format: DEST[,digi1[,digi2]]  
  
BCALL=NL7OM-1 ; BTEXT call. unstated defaults to APPL1CALL  
  
CONFIG  
  
UDP 10093 ;Listens for UDP packets on this UDP port number  
  
MHEARD ON  
  
AUTOADDMAP  
  
BROADCAST NODES  
  
BROADCAST ID  
  
MAP KD6PGI-1 KD6PGI.NO-IP.ORG UDP 10093 B  
  
MAP N1RCW-12 n1rcw.no-ip.org UDP 10093 B  
  
MAP G8BPQ-2 g8bpq.no-ip.org UDP 10093 B  
  
MAP GM8BPQ gm8bpq.no-ip.com UDP 10093 B  
  
MAP WB7UBC-2 gr3gh0m3.dyndns.org UDP 10093 B  
  
MAP KB7RSI-1 KB7RSI.AMPR.ORG UDP 10093 B
```

MAP K7ICY-1 K7ICY.no-ip.org UDP 10093 B

MAP KE7AWR-1 KE7AWR.no-ip.org UDP 10093 B

ENDPORT

PORT

PORTNUM=2 ; Optional but sets port number if stated

ID=AXUDP Hub ; Displayed by PORTS command

TYPE=EXTERNAL ; Calls an external module

DLLNAME=BPQAXIP.DLL ; Uses BPQAXIP.DLL

QUALITY=90 ; Setting to 0 stops node broadcasts

MINQUAL=85

MAXFRAME=7 ; Max outstanding frames (1 thru 7)

FRACK=3000 ; Level 2 timeout in milliseconds

RESPTIME=1000 ; Level 2 delayed ack timer in milliseconds

RETRIES=10 ; Level 2 maximum retry value

CONFIG

MHEARD ;Open AXIP MHEARD Window;

UDP 10100

MAP NODES 172.31.1.255 UDP 10100

MAP ID 172.31.1.255 UDP 10100

MAP NODES 172.31.2.255 UDP 10100

MAP ID 172.31.2.255 UDP 10100

AUTOADDMAP

ENDPORT

;-----

; Radio port definition.

PORT

PORTNUM=3 ; Optional but sets port number if stated

ID=145.750 to VANC ; Displayed by PORTS command

TYPE=ASYNC ; Port is RS232 Com

PROTOCOL=KISS ; TNC is used in KISS mode

FULLDUP=0 ; Only meaningful for KISS devices

IOADDR=1 ; 1 = SERIAL PORT COM1 ETC.

SPEED=9600 ; RS232 COM PORT SPEED

CHANNEL=A ; Address if multichannel TNC

PERSIST=64 ; PERSIST=256/(# of transmitters-1)

SLOTTIME=100 ; CMSA interval timer in milliseconds

TXDELAY=300 ; Transmit keyup delay in milliseconds

TXTAIL=30 ; TX key down, in milliseconds, at packet end

QUALITY=192 ; Quality factor applied to node broadcasts heard on
; this port, unless overridden by a locked route
; entry. Setting to 0 stops node broadcasts

MINQUAL=95 ; Entries in the nodes table with qualities greater or
; equal to MINQUAL will be sent on this port. A value
; of 0 sends everything.

MAXFRAME=4 ; Max outstanding frames (1 thru 7)

FRACK=5000 ; Level 2 timeout in milliseconds

RESPTIME=1000 ; Level 2 delayed ack timer in milliseconds

RETRIES=5 ; Level 2 maximum retry value

UNPROTO=ID ; BTEXT broadcast addrs format: DEST[,digi1[,digi2]]

BCALL=NL7OM-1 ; BTEXT call. unstated defaults to BBSCALL/APPL1CALL

L3ONLY=0 ; 1=No user downlink connects on this port

DIGIFLAG=0 ; Digipeat: 0=OFF, 1=ALL, 255=UI Only

DIGIPORT=0 ; Port on which to send digi'd frames (0 = same port)

USERS=0 ; Maximum number of L2 sessions, 0 = no limit

NOKEEPALIVES=1

ENDPORT

PORT

PORTNUM=4 ; Optional but sets port number if stated

ID=434.950 ; Displayed by PORTS command

TYPE=ASYNC ; Port is RS232 Com

PROTOCOL=KISS ; TNC is used in KISS mode

FULLDUP=0 ; Only meaningful for KISS devices

IOADDR=1 ; 1 = SERIAL PORT COM1 ETC.
SPEED=38400 ; RS232 COM PORT SPEED
CHANNEL=B ; Address if multichannel TNC
PERSIST=64 ; PERSIST=256/(# of transmitters-1)
SLOTTIME=100 ; CMSA interval timer in milliseconds
TXDELAY=100 ; Transmit keyup delay in milliseconds; was 80
TXTAIL=30 ; TX key down, in milliseconds, at packet end; was 20
QUALITY=192 ; Quality factor applied to node broadcasts heard on
; this port, unless overridden by a locked route
; entry. Setting to 0 stops node broadcasts
MINQUAL=95 ; Entries in the nodes table with qualities greater or
; equal to MINQUAL will be sent on this port. A value
; of 0 sends everything.
MAXFRAME=4 ; Max outstanding frames (1 thru 7)
FRACK=5000 ; Level 2 timeout in milliseconds
RESPTIME=1000 ; Level 2 delayed ack timer in milliseconds
RETRIES=5 ; Level 2 maximum retry value
UNPROTO=ID ; BTEXT broadcast addrs format: DEST[,digi1[,digi2]]
BCALL=NL7OM-1 ; BTEXT call. unstated defaults to BBSCALL/APPL1CALL
L3ONLY=0 ; 1=No user downlink connects on this port
DIGIFLAG=0 ; Digipeat: 0=OFF, 1=ALL, 255=UI Only
DIGIPORT=0 ; Port on which to send digi'd frames (0 = same port)
USERS=0 ; Maximum number of L2 sessions, 0 = no limit
NOKEEPALIVES=1
ENDPORT
;PORT
PORTNUM=5 ; Optional but sets port number if stated
ID=145.750 to VANC ; Displayed by PORTS command
TYPE=ASYNC ; Port is RS232 Com
PROTOCOL=KISS ; TNC is used in KISS mode
KISSOPTIONS=ACKMODE

FULLDUP=0 ; Only meaningful for KISS devices

IOADDR=2 ; 1 = SERIAL PORT COM1 ETC.

SPEED=38400 ; RS232 COM PORT SPEED

CHANNEL=A ; Address if multichannel TNC

PERSIST=64 ; PERSIST=256/(# of transmitters-1)

SLOTTIME=100 ; CMSA interval timer in milliseconds

TXDELAY=300 ; Transmit keyup delay in milliseconds

TXTAIL=30 ; TX key down, in milliseconds, at packet end

QUALITY=192 ; Quality factor applied to node broadcasts heard on
; this port, unless overridden by a locked route
; entry. Setting to 0 stops node broadcasts

MINQUAL=95 ; Entries in the nodes table with qualities greater or
; equal to MINQUAL will be sent on this port. A value
; of 0 sends everything.

MAXFRAME=4 ; Max outstanding frames (1 thru 7)

FRACK=5000 ; Level 2 timeout in milliseconds

RESPTIME=1000 ; Level 2 delayed ack timer in milliseconds

RETRIES=5 ; Level 2 maximum retry value

UNPROTO=ID ; BTEXT broadcast addrs format: DEST[,digi1;[,digi2]]

BCALL=NL7OM-1 ; BTEXT call. unstated defaults to ;BBSCALL/APPL1CALL

L3ONLY=0 ; 1=No user downlink connects on this port

DIGIFLAG=0 ; Digipeat: 0=OFF, 1=ALL, 255=UI Only

DIGIPORT=0 ; Port on which to send digi'd frames (0 = same port)

USERS=0 ; Maximum number of L2 sessions, 0 = no limit

NOKEEPALIVES=1

ENDPORT

;PORT

PORTNUM=6 ; Optional but sets port number if stated

ID=TBD (Unused) ; Displayed by PORTS command

TYPE=ASYNC ; Port is RS232 Com

PROTOCOL=KISS ; TNC is used in KISS mode

FULLDUP=0 ; Only meaningful for KISS devices
IOADDR=2 ; 1 = SERIAL PORT COM1 ETC.
SPEED=38400 ; RS232 COM PORT SPEED
CHANNEL=B ; Address if multichannel TNC
PERSIST=64 ; PERSIST=256/(# of transmitters-1)
SLOTTIME=100 ; CMSA interval timer in milliseconds
TXDELAY=100 ; Transmit keyup delay in milliseconds; was 80
TXTAIL=30 ; TX key down, in milliseconds, at packet end; was 20
QUALITY=192 ; Quality factor applied to node broadcasts heard on
; this port, unless overridden by a locked route
; entry. Setting to 0 stops node broadcasts
MINQUAL=95 ; Entries in the nodes table with qualities greater or
; equal to MINQUAL will be sent on this port. A value
; of 0 sends everything.
MAXFRAME=4 ; Max outstanding frames (1 thru 7)
FRACK=5000 ; Level 2 timeout in milliseconds
RESPTIME=1000 ; Level 2 delayed ack timer in milliseconds
RETRIES=5 ; Level 2 maximum retry value
UNPROTO=ID ; BTEXT broadcast addrs format: DEST[,digi1;[,digi2]]
BCALL=NL7OM-1 ; BTEXT call. unstated defaults to BBSCALL/APPL1CALL
L3ONLY=0 ; 1=No user downlink connects on this port
DIGIFLAG=0 ; Digipeat: 0=OFF, 1=ALL, 255=UI Only
DIGIPORT=0 ; Port on which to send digi'd frames (0 = same port)
USERS=0 ; Maximum number of L2 sessions, 0 = no limit
NOKEEPALIVES=1
ENDPORT
; -----
; BPQTelnetServer port definition.
PORT
PORTNUM=7
ID=Telnet Server

```

TYPE=EXTERNAL

DLLNAME=TELNET.dll

PORTCALL=NL7OM-10

CONFIG

CMS=1                ; Turns on the CMS access

LOGGING=1

DisconnectOnClose=1

TCPPOINT=18020       ; 18020 Port number to Telnet into

FBBPORT=18021        ; (1) Can be used old Win FBB BBS (2) BPQTerm.tcp standalone terminal program.

LOGINPROMPT=user:

PASSWORDPROMPT=password:

MAXSESSIONS=10

CTEXT=Welcome to NL7OM's Telnet Server\nEnter ? for list of commands\n\n

USER=NL7OM,calvin12,NL7OM,"",sysop ; User: NL7OM PW: calvin12

ENDPOINT

; -----

ROUTES:              ; Locked routes (31 maximum)

/*                  ; Begin comment block

CALLSIGN,QUALITY,PORT[,MAXFRAME,FRACK,PACLEN,INP3Enable]

MAXFRAME, Frack and PACLEN if stated override the port defaults.

INP3Enable = 1 enables, 0 or null disable. The INP3 (internode protocol)

implementation in BPQ32 is experimental. See additional details in bpqaxip.cfg.

Example of a route statement using INP3:

HISCAL-12,1,1,0,0,1

Locked routes tend to be overused and should not be set unless truly needed.

*/                  ; End comment block

; No routes are specified, as they would be meaningless for this configuration.

***                ; Denotes end of locked routes

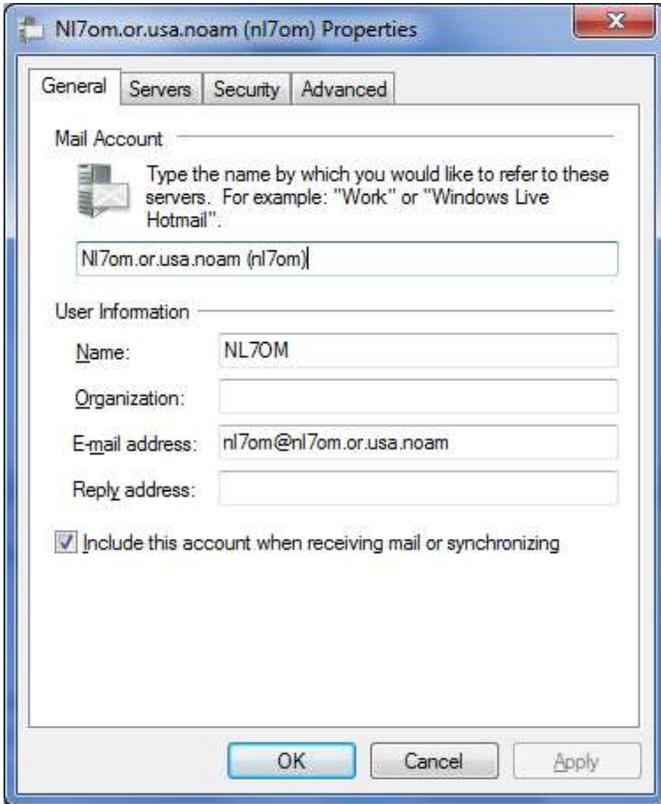
; ----- ; In this example 2 applications are supported.

APPLICATION 1,BBS,,NL7OM-2,NPBBS,255

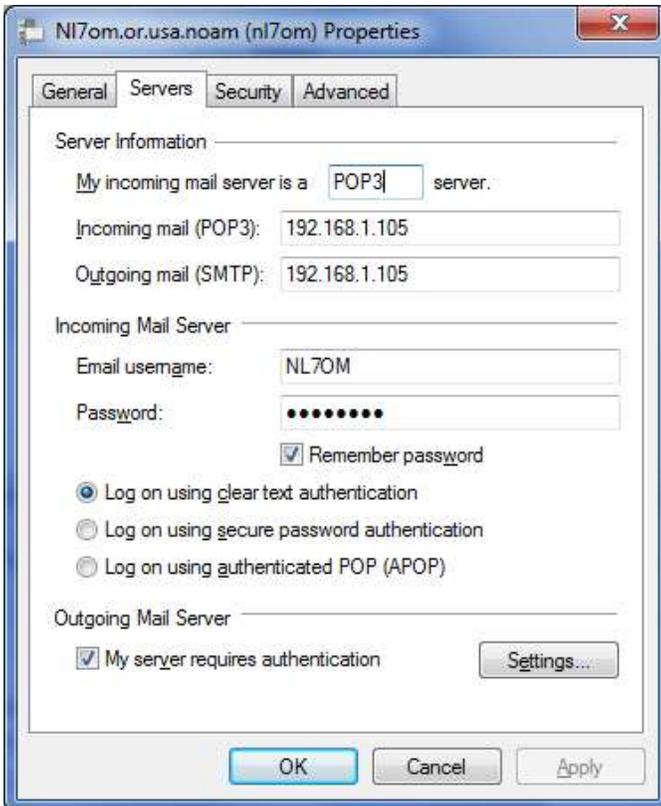
APPLICATION 2, ,RMS,C 7 CMS,NL7OM-10,NPRMS,255

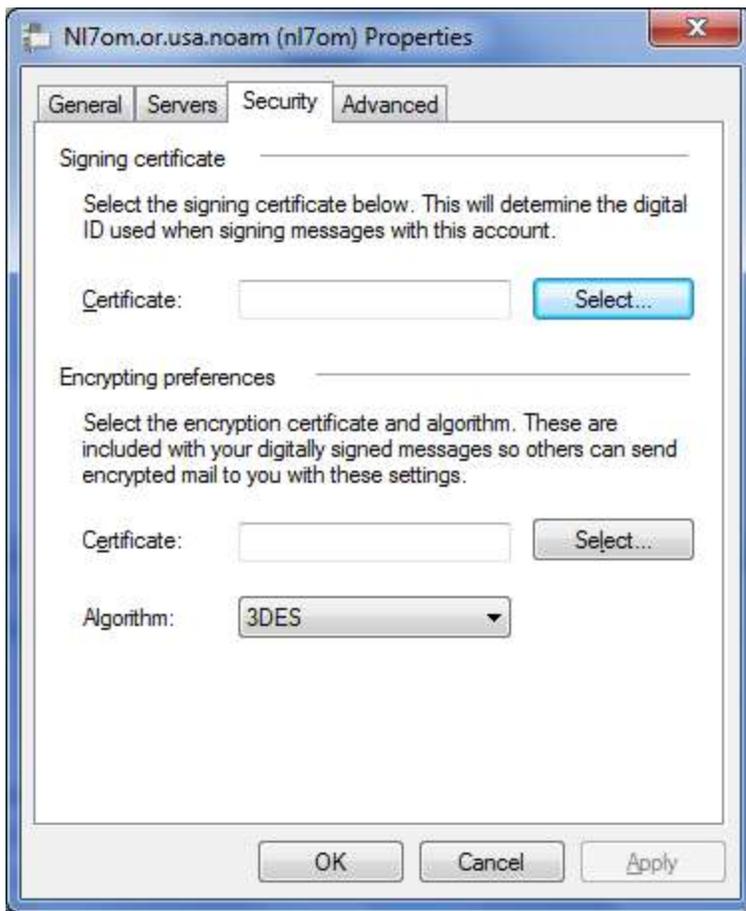
```

SETTING UP MS LIVE MAIL AS AN EMAIL CLIENT:

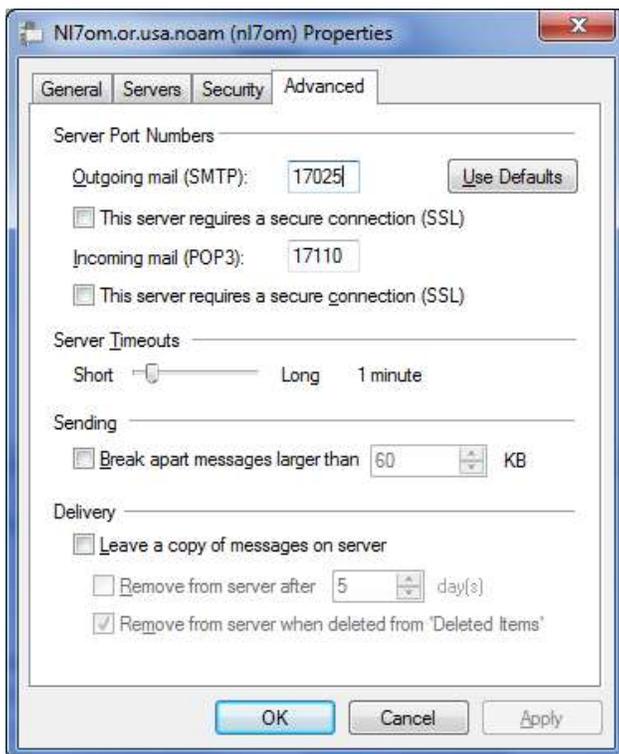


Please note that the Email username and password are case-sensitive and must match what you defined in BPQ32.cfg:

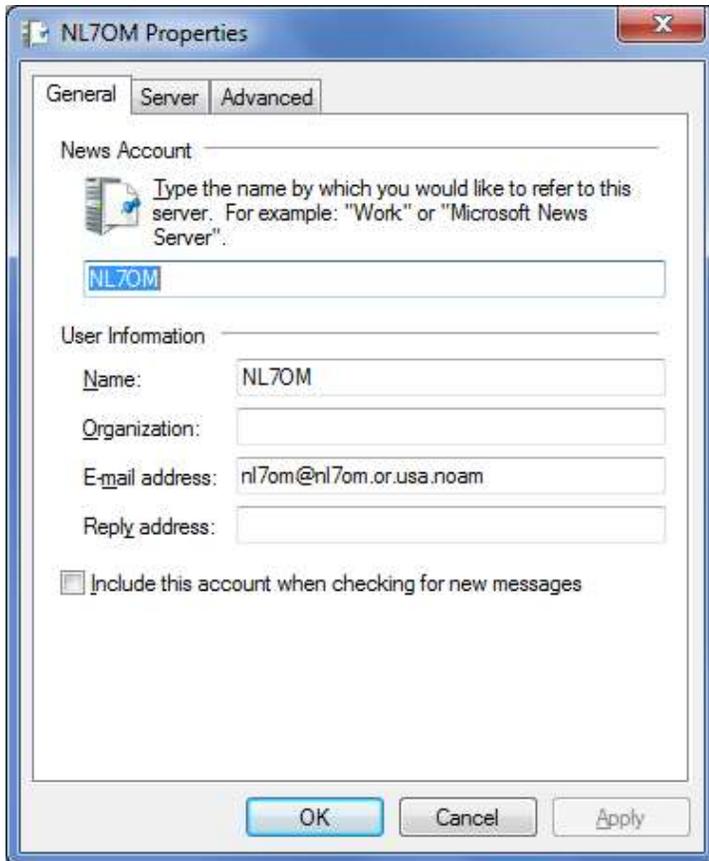




If you skipped the step for opening the UDP/TCP Ports on your network's router then your MS Windows Live Mail Client will NOT work:



NEWSGROUP SETUP:



The screenshot shows the 'NL7OM Properties' dialog box with the 'General' tab selected. The 'News Account' section has a text box containing 'NL7OM'. The 'User Information' section has fields for 'Name' (NL7OM), 'Organization' (empty), 'E-mail address' (nl7om@nl7om.or.usa.noam), and 'Reply address' (empty). There is a checkbox for 'Include this account when checking for new messages' which is unchecked. At the bottom are 'OK', 'Cancel', and 'Apply' buttons.

General Server Advanced

News Account

Type the name by which you would like to refer to this server. For example: "Work" or "Microsoft News Server".

NL7OM

User Information

Name: NL7OM

Organization:

E-mail address: nl7om@nl7om.or.usa.noam

Reply address:

Include this account when checking for new messages

OK Cancel Apply



The screenshot shows the 'NL7OM Properties' dialog box with the 'Server' tab selected. The 'Server Information' section has a 'Server name' field containing '192.168.1.105'. There is a checked checkbox for 'This server requires me to log on'. Below it are fields for 'Account name' (NL7OM) and 'Password' (masked with dots). There is a checked checkbox for 'Remember password' and an unchecked checkbox for 'Log on using Secure Password Authentication'. At the bottom are 'OK', 'Cancel', and 'Apply' buttons.

General Server Advanced

Server Information

Server name: 192.168.1.105

This server requires me to log on

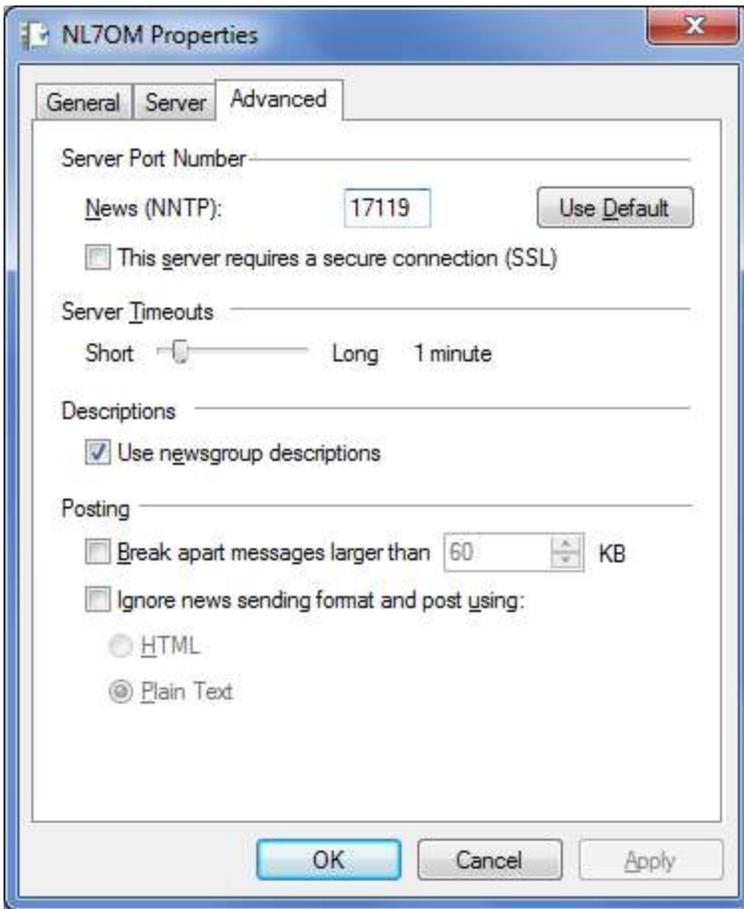
Account name: NL7OM

Password: ●●●●●●

Remember password

Log on using Secure Password Authentication

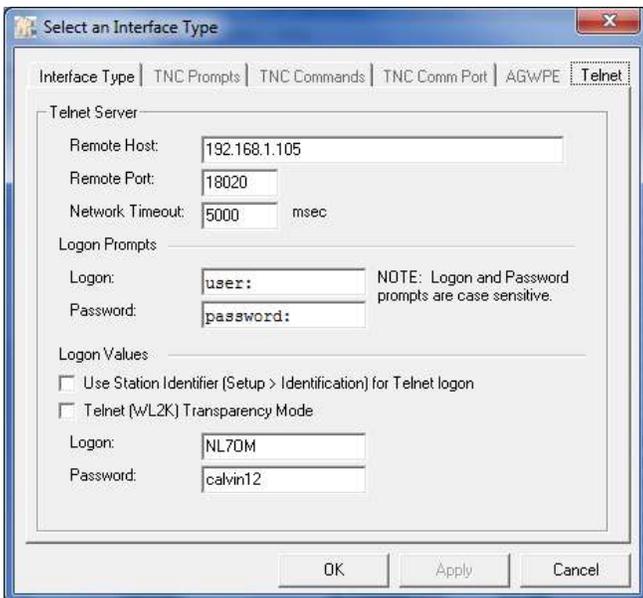
OK Cancel Apply



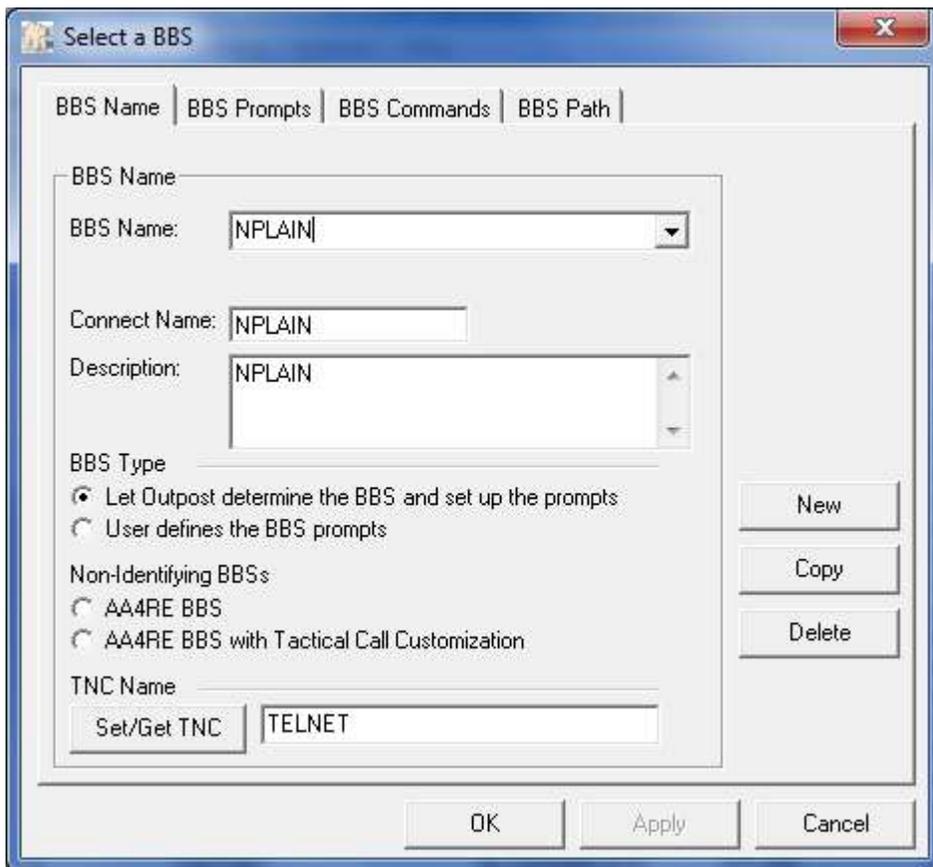
Once defined and you are connected to a BPQ32 node that can forward its Bulletins to you then it should show you what Newsgroups are available to subscribe to.

OUTPOST CONFIGURATION FOR USE WITH BPQ32:

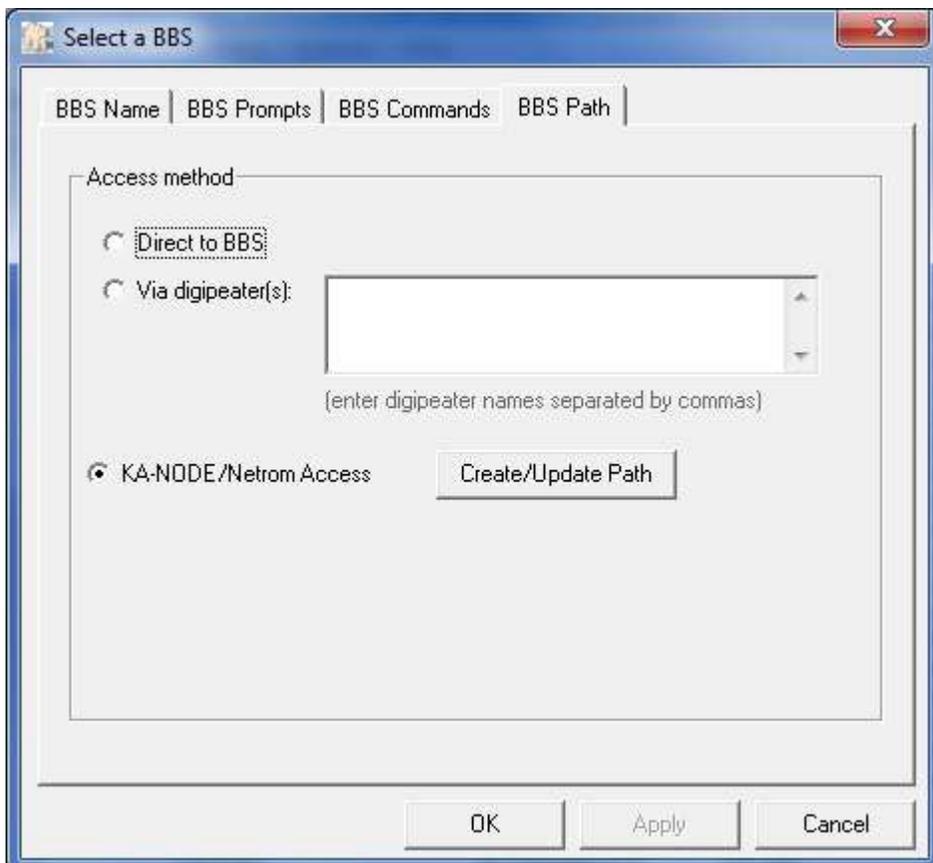
I use Telnet to connect Outpost to my North Plains BPQ32 node. You can also do it using TNC hardware or AGW:



Be sure to match up the entries exactly as they are case-sensitive.



Select BBS Path; KA-NODE/Netrom Access:



Please note that this page is case-sensitive and must match precisely. If you do not match the case it will fail to connect and download your packet emails:

Please bear in mind that links for the below URLs and files will become outdated over time. For more information concerning the set-up and use of Outpost please go to the developer's website:

<http://www.outpostpm.org>

Go here to join the BPQ32 group and download the latest version of BPQ32:

<http://groups.yahoo.com/group/BPQ32/>

CLOSING SUMMARY:

Excellent documentation has been provided by the creator of BPQ32, John Wiseman, GB8BPQ and it is definitely worth the time to review it to get a handle on how to configure and use BPQ32.

Most of the settings basically come down to using basic Common Sense. If you have any questions concerning installation, setup and the use of BPQ32 I will certainly do my best to answer them or access resources where we can get answers.

Please let me know if you need assistance with deploying your own BPQ32 node or you have recommended additions; deletions; changes or suggestions.

CB

NL7OM

The Old Man