Last modified: 08-01-96

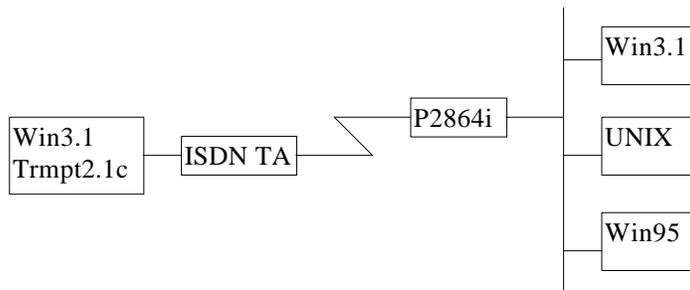# Trumpet Winsock Windows 3.1 Workstation Setup

This document describes how to setup Windows 3.1 with Trumpet for the following applications:

I.   Remote Access/Telecommuting - the Win 3.1 workstation uses an ISDN TA to dial in to the Prestige.

II. Internet Access through Prestige - the Win 3.1 workstation connected to the same network as the Prestige, and access the Internet throught the Prestige.

I.   Remote Access/Telecommuting

Windows 3.1 workstation running Trumpet Winsock v.2.1c with an ISDN TA connected to a network using a Prestige 2864I using Trumpet (PPP TCP/IP)

1)Setup hardware
   A) Configure the ISDN TA using the configuration utility for that device. Be sure to input the correct SPIDs and phone information.

2)Unzip trumpet to target directory (ie. c:\trumpet)
   a)Make sure this directory includes:

winsock.dll	tcpman.exe	hosts
services	protocol	sendreg.exe
setup.cmd	login.cmd	bye.cmd
trumpwsk.hlp	winpkt.com	

3)Configure Trumpet
   A)Modify the autoexec.bat
      -Modify the PATH, in the autoexec.bat, to include the
        target directory trumpet where trumpet is located.
      -Reboot your computer to make the new path active.
      -Verify the path is correct opening tcpman.exe, located in
           your target directory, from the file manager in Windows
      -If tcpman fails to run, your path is set incorrectly. Repeat
           step 3.
   B)Configure Windows
      -Create a windows group for Trumpet to be in
      -Add a new window item, tcpman.exe, to the new group

4)Configure Network Setup (FILE:SETUP)

A)Open up File:Setup
 -Check the internal PPP box at the bottom of the dialogue screen
B)If you don't have a static IP address leave the IP address box blank, otherwise enter it here
C)Enter in the local DNS, or nameserver, in the Name Server box (Your Internet Service Provider or local network should supply this).
D)Enter in your local domain suffix (ie. domain.com)
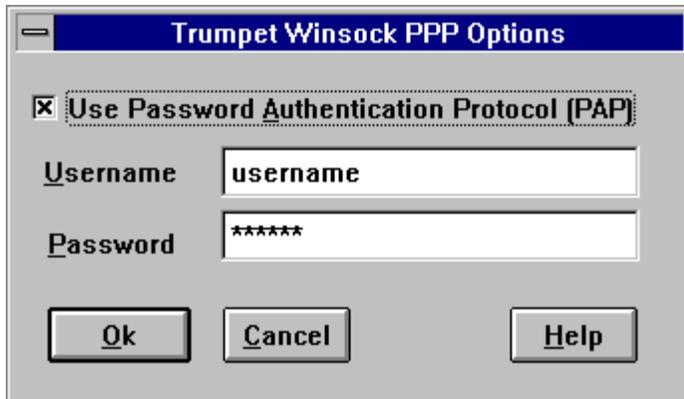E)Change SLIP PORT to the number of the comm port your Terminal Adapter is connected
F)Change the BAUD RATE to the maximum baud rate your comm port will support (Usually 115200)
H)Check HARDWARE HANDSHAKING, VAN JACOBSON CSLIP COMPRESSION, DCD check
G)Exit Trumpet (FILE:QUIT)
H)Restart Trumpet

5)Configure PPP Connection (FILE:PPP OPTIONS)

A) Enter in your username and password as assigned by the P2864i
 B) Check "USE Password Authentication Protocol (PAP)"

6) Logging onto the P2864i from the ISDN TA (Using scripts)
    -1) In the directory Trumpet is in type: `ren *.cmd *.bak` (back-up old copies of .cmd)
    -2) Either cut and paste blocks (being sure to strip out the leading tabs)
    -3) Copy the new .cmd files to the directory Trumpet is in

  A) Make a file "**config.cmd**" containing the following:

```
%ok = [load $number]
if [query $number "Enter the ISDN phone number"]
  save $number
else
  exit
end
```

  B) Make a file "**bye.cmd**" containing the following:

```
status "Disconnecting terminal adapter..."
set dtr off
message "Terminal adapter disconnected..."\13
sleep 2
set dtr on
```

  C) Make a file "**login.cmd**" containing the following:

```
#----USER CONFIGURABLE VARIABLES----
#Your ISDN-TA init string (Ignore the prefix "AT")
#Use only one of the following init strings!!

#For the ZyXEL Elite 2864I:
$TAinit = "b40%a4=0 "

#For other ISDN TAs you can try one of the following init strings
#For the 3Com Impact:
#$TAinit = "at%a4=0s61=2s71=1"

#For the Motorola BitSurfer:
#$TAinit = "%a2=95%a4=0@b0=2@p2=115200"

#timeout is the amount of time to wait for a connection for
%timeout = 60
#If ISDN number not entered yet, prompt user to enter
if ![load $number]
  if [query $number "Enter the ISDN phone number"]
    save $number
  end
end
#Ensure PPP has been selected in the setup menu
```

```
  if ! %ppp
    message "PLEASE CONFIGURE FOR PPP USAGE. SEE FILE ****.FAQ"
    abort
  end
  #----INITIALIZE THE TERMINAL ADAPTER----
  status "Initializing terminal adapter..."
  output "atz"\13
  if ![input 5 OK\n]
    display "The terminal adapter is not responding!"
    message "ERROR"
    abort
  end
  output "at"$TAinit\13
  if ![input 5 OK\n]
    display "The terminal adapter is not responding!"
    message "ERROR"
    abort
  end
  #----SEND ISDN NUMBER & LOGIN----
  status DIALING $number....
  output "atdi"$ number\13
  input 5 \n
  display Now logging in (using PAP)...
  #-----end script----
```

D)Use the login script to login (Dialer:Login)
E)Use the bye script to logout (Dialer:Bye)
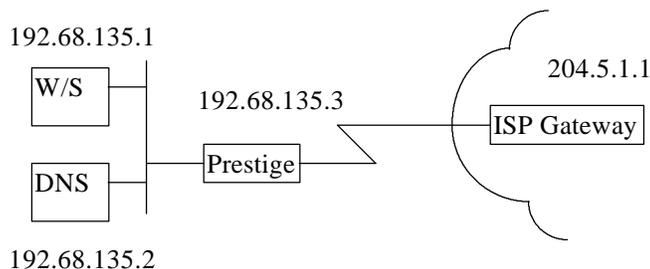F)Use the setup.cmd to re-enter the phone number (Dialer:Setup.cmd)

7)Logging onto the P2864i from the ISDN TA (Manually)
   -Before you will be able to logout, after manually logging in, you must have
    made the new bye (logout) script
 A)Select `Dialer:Manual Login `
 B)type: `atb40%a4=0` for the ZyXEL Elite 2864I or
   (type: `at%a4=0s61=2s71=1` for the 3Com Impact or
   type: `at%a2=95%a4=0@b0=2@p2=115200`   Motorola BitSurfer)
 C)wait for `OK`
 D)type: `atdi###` (where #### is the ISDN number you are dialing)
 E)wait for `CONNECT`
 F)Hit `esc` (escape key)
 G)To log out goto `"Dialler:Bye"`

II. Internet Access through Prestige

Windows 3.1 workstation connected to a network using Trumpet, with the network connected to the Internet through Prestige.

192.68.135.1
W/S   192.68.135.3
Prestige
DNS
192.68.135.2
204.5.1.1
ISP Gateway

1)Make sure your startnet.bat or autoexec.bat file includes the *packet driver* for your network card and winpkt. Winpkt should initialize the packet vector set in your network card driver.

```
NE2000 0x60 5 0x2c0
```

```
        WINPKT 0x60
```

2)Unzip trumpet to target directory (ie. c:\trumpet)
  a)Make sure this directory includes:

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3)Configure Trumpet
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    -Modify the PATH, in the autoexec.bat, to include the
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    -Reboot your computer to make the new path active.
    -Verify the path is correct opening tcpman.exe, located in
        your target directory, from the file manager in Windows
    -If tcpman fails to run, your path is set incorrectly. Repeat
        step 3.
  B)Configure Windows
    -Create a windows group for Trumpet to be in
    -Add a new window item, tcpman.exe, to the new group

4)Configure Network Setup (FILE:SETUP)

  A)Open up File:Setup
    -Make sure the internal PPP and Internal SLIP boxes are not checked
  B)Enter your computers IP address in IP address box
  C)Enter your netmask in the netmask box
  D)Enter your Default Gateway to your Gateway IP
  D)Enter in the local DNS, or nameserver, in the Name Server box (Your Internet Service Provider
    or local network should supply this).
  E)Enter in your local domain suffix (ie. domain.com)
  F)Set your packet vector to the same packet vector specified by winpkt in your autoexec.bat
  G)Unless you need to customize your settings, leave MTU=1500, TCP RWIN=4096, TCP
MSS=1024
    and TCP RTO MAX=60.
  H)Exit Trumpet (FILE:QUIT)
  I)Restart Trumpet