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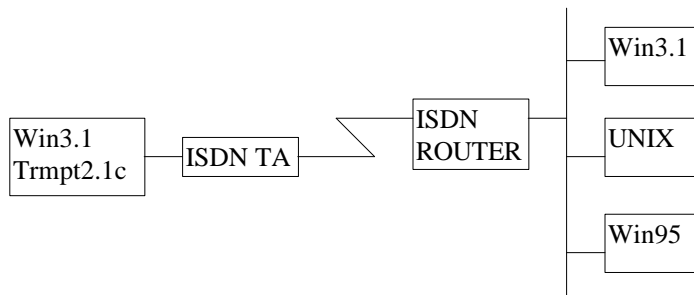
## Trumpet Winsock Windows 3.1 Workstation Setup

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

### I. Remote Access/Telecommuting

Windows 3.1 workstation running Trumpet Winsock v.2.1c with an ISDN TA connected to a network using a ISDN ROUTER 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

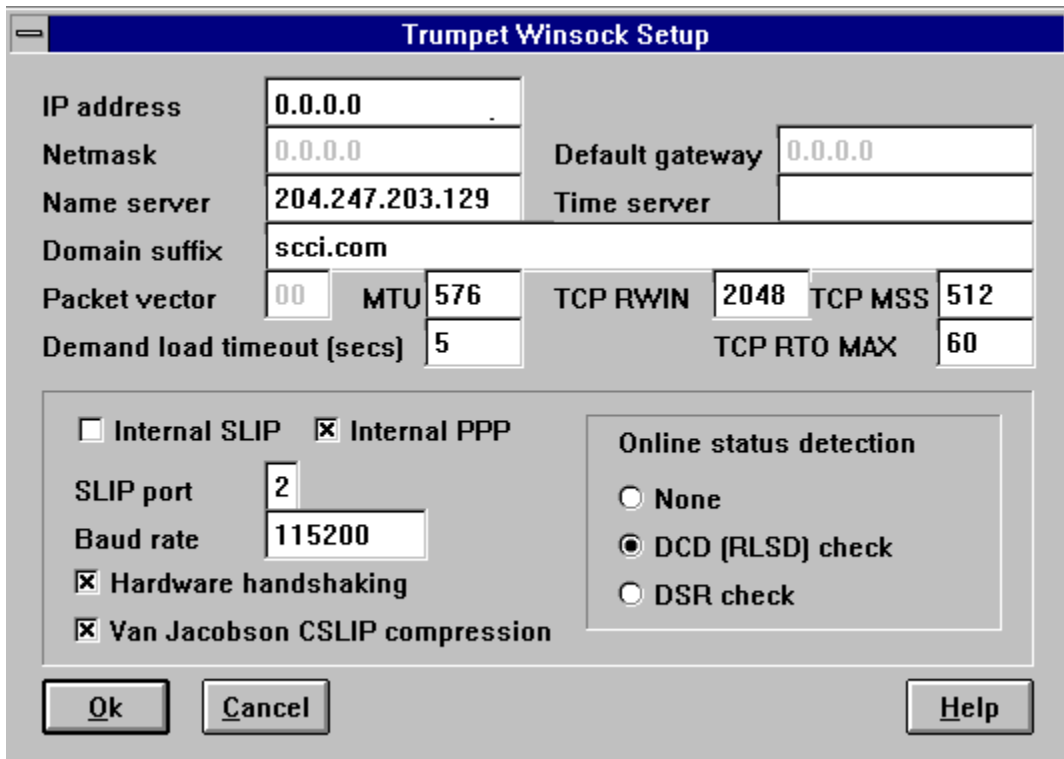
- A) Modify the autoexec.bat

- 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)



The image shows the 'Trumpet Winsock Setup' dialog box. It contains several input fields and checkboxes. The 'IP address' field is set to '0.0.0.0', 'Netmask' to '0.0.0.0', and 'Default gateway' to '0.0.0.0'. The 'Name server' field is set to '204.247.203.129'. The 'Domain suffix' field is set to 'scci.com'. The 'Packet vector' field is set to '00', 'MTU' to '576', 'TCP RWIN' to '2048', 'TCP MSS' to '512', 'Demand load timeout (secs)' to '5', and 'TCP RTO MAX' to '60'. There are checkboxes for 'Internal SLIP' (unchecked) and 'Internal PPP' (checked). The 'SLIP port' field is set to '2', and the 'Baud rate' field is set to '115200'. There are checkboxes for 'Hardware handshaking' (checked) and 'Van Jacobson CSLIP compression' (checked). There is a section for 'Online status detection' with radio buttons for 'None', 'DCD (RLSD) check' (selected), and 'DSR check'. At the bottom are 'Ok', 'Cancel', and 'Help' buttons.

IP address	0.0.0.0	Default gateway	0.0.0.0
Netmask	0.0.0.0	Time server	
Name server	204.247.203.129		
Domain suffix	scci.com		
Packet vector	00	MTU	576
		TCP RWIN	2048
		TCP MSS	512
Demand load timeout (secs)	5	TCP RTO MAX	60

☐ Internal SLIP   ☒ Internal PPP

SLIP port: 2  
Baud rate: 115200

☒ Hardware handshaking  
☒ Van Jacobson CSLIP compression

Online status detection:  
☐ None  
☒ DCD (RLSD) check  
☐ DSR check

Ok   Cancel   Help

## 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

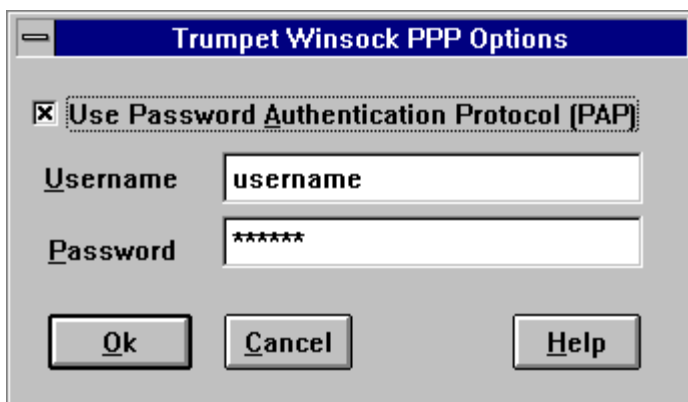
## F)Change the BAUD RATE to the maximum baud rate your comm port will support (Usually 115200)

## 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)



The image shows the 'Trumpet Winsock PPP Options' dialog box. It has a checkbox for 'Use Password Authentication Protocol (PAP)' which is checked. Below it are fields for 'Username' (set to 'username') and 'Password' (set to '\*\*\*\*\*'). At the bottom are 'Ok', 'Cancel', and 'Help' buttons.

☒ Use Password Authentication Protocol (PAP)

Username: username  
Password: \*\*\*\*\*

Ok   Cancel   Help

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 = "b40a4=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=95a4=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
```

```

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)

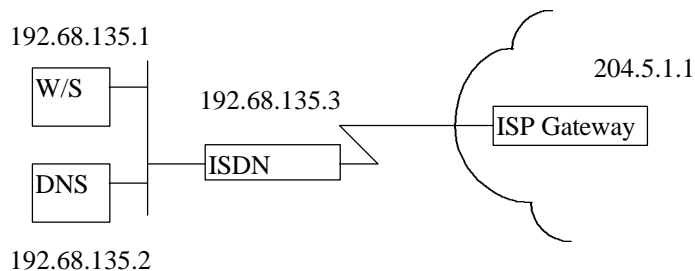
#### 7)Logging onto the Prestuge from the ISDN TA (Manually)

-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 ISDN ROUTER

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



- 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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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

- 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