WARP UK

OS/2 Users Group

Equipment list for presentation:

2 off	PC's	TweadleDum	TweadleDee	both < 166Mhz
	RAM	< 32	<32	MB
	Free Disk	< 1000	< 500	MB
	Eternet	Required	Required	
	CD ROM	Required	Optional	
	3.5" Diskette	Required	Required	
	Graphics	VGA or better	VGA or better	
The ability to output to projector from on or both machines				
1 off		Printer		
3 m		50Ω coax		
2 off		50Ω terminator		
Alternatively				
2 off	2 m	4 wire network cable		
1 off		Network Hub		

Time will be needed to prepare these machines.

TweadleDum: Will require the installation of BootManager 1 primary partition with Win 98 installed and 1 primary or secondary partition with Warp 4 and network tcp/ip, NETBIOS and IEEE protocols installed.

TweadleDee: Will require the installation (possibly remote install) of Warp 4 with no Network installed.
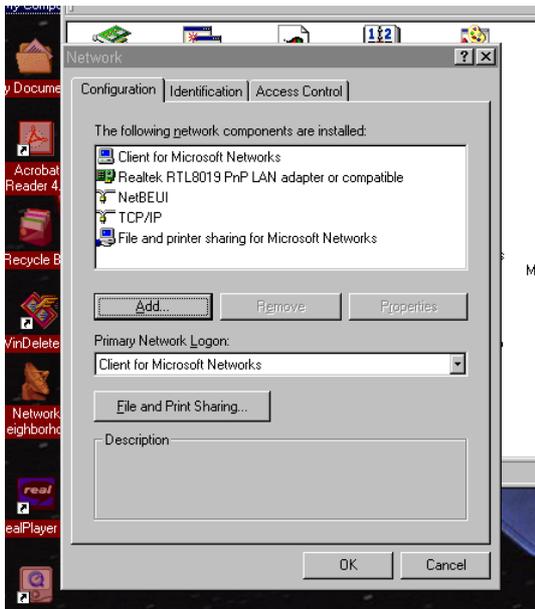
Required Software for Presentation

Copies of Windows98 and Warp4 Device Drivers will be required for the printer and both ethernet cards for <u>both</u> operating systems it also my be necessary to adjust partitions and install a boot manager this is quickest done using Partition Magic.

Scope of this Presentation

The object of this presentation is to demonstrate the setting up of a small home network. This demonstration is intended for home and home Office users who wish to connect their machine to others in the household. It therefore has to cover connection with the (pause for boo's and hisses) windows 95 - 98 system as well as OS/2 - OS/2 enabling the sharing of resources for demonstration purposes I have chosen a printer and CD ROM drive.

The Presentation

Win Screenshots

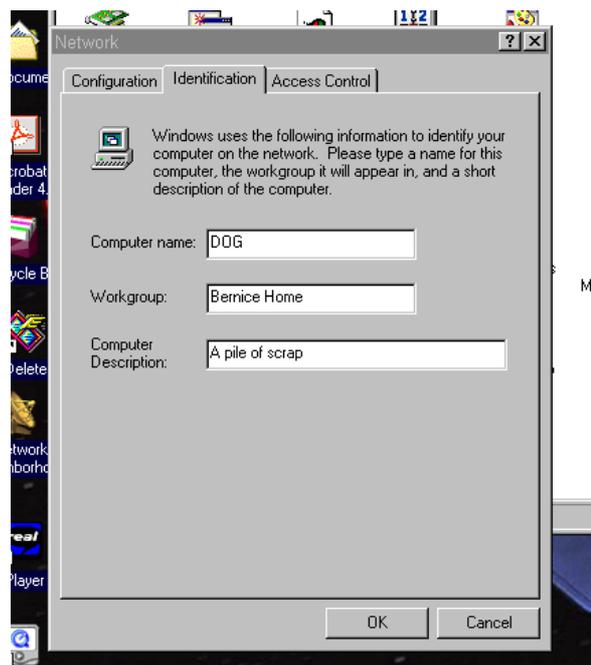

The windows Network panel showing the installed components (Adaptors and Protocols) on a Windows 98 machine.
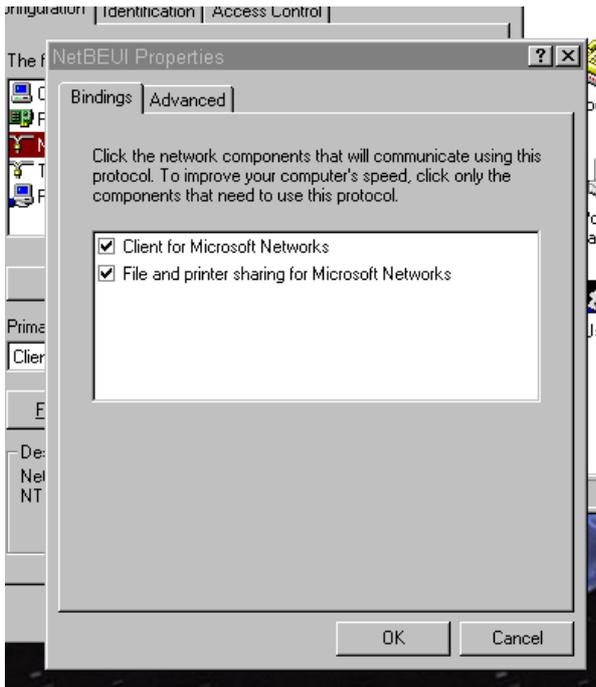
These need to contain :
a) Your LAN adaptor
b) Client for Microsoft Networks
c) File and Print sharing for Microsoft networks
d) NetBEUI
e) TCP/IP

Windows Settings

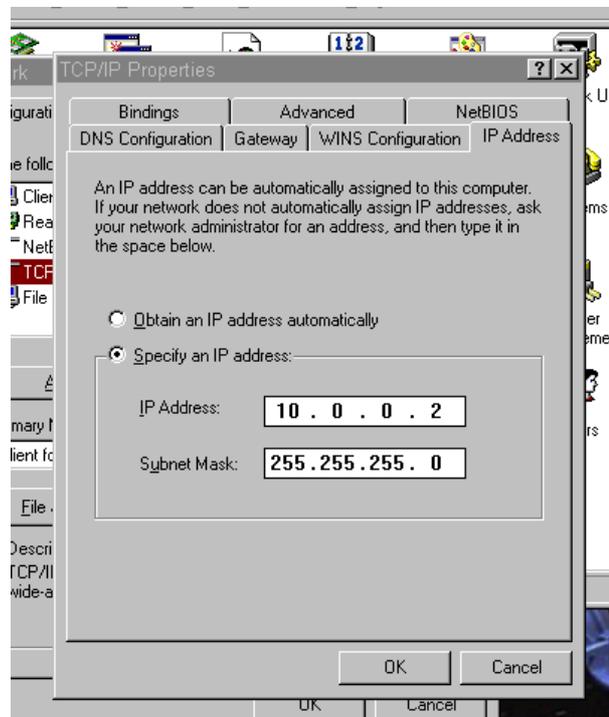The Identification page of my windows Network settings.

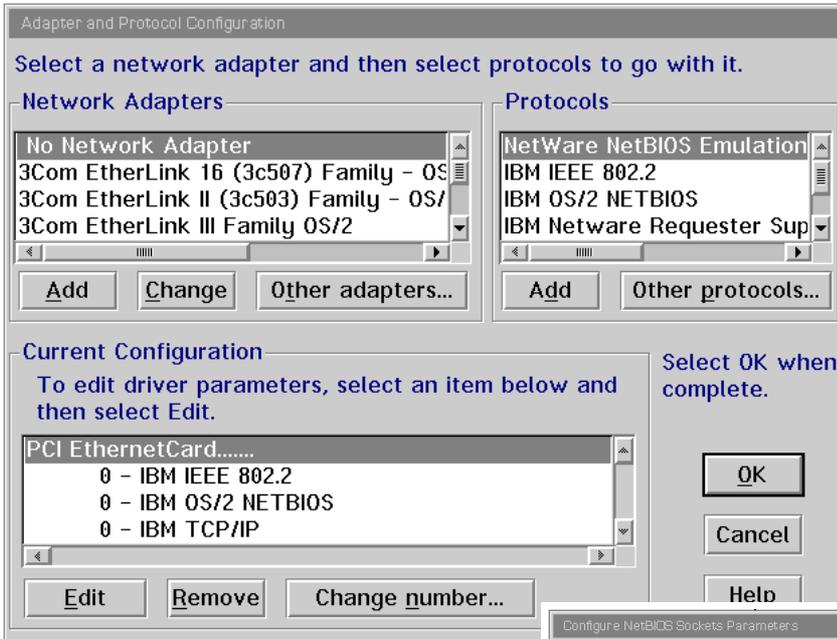The NetBEUI Bindings are checked for client for M$ networks and file and print sharing

The TCP/IP properties

On my system are configured to a manually selected IP address that must be unique to each machine on the system.

OS/2 Screenshots

Settings are usually made during installation but may be made or altered using the Adaptor and Protocol Service utility found in the System Setup folder.
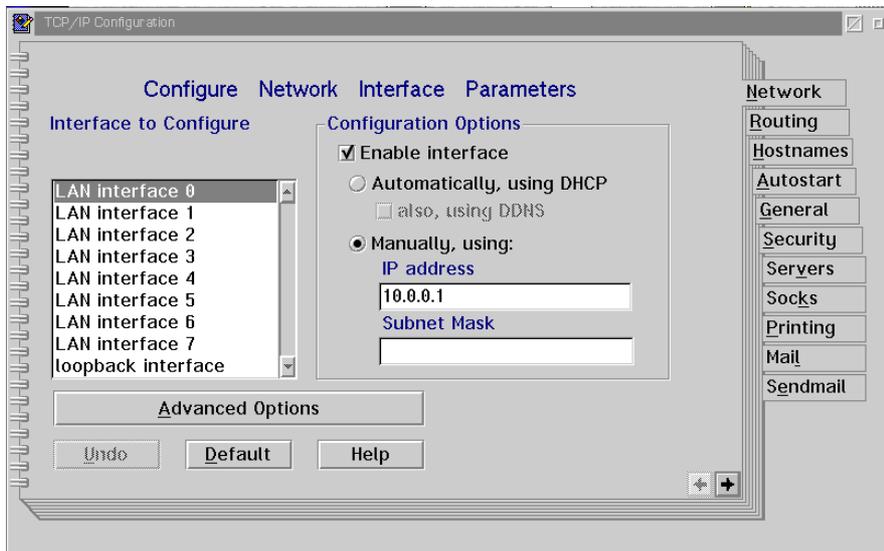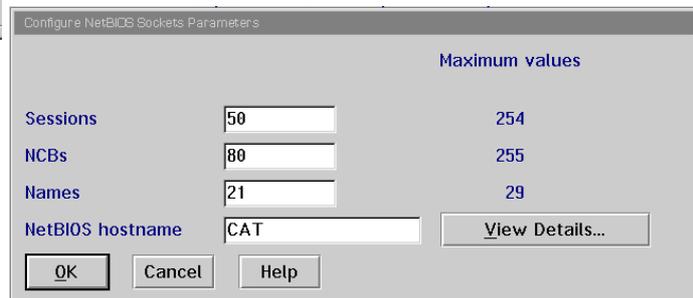
Adapters and Protocol Services

Adapter and Protocol Configuration

Select a network adapter and then select protocols to go with it.

Network Adapters

- No Network Adapter
- 3Com EtherLink 16 (3c507) Family – OS
- 3Com EtherLink II (3c503) Family – OS/
- 3Com EtherLink III Family OS/2

[Add] [Change] [Other adapters...]

Protocols

- NetWare NetBIOS Emulation
- IBM IEEE 802.2
- IBM OS/2 NETBIOS
- IBM Netware Requester Sup

[Add] [Other protocols...]

Current Configuration

To edit driver parameters, select an item below and then select Edit.

- PCI EthernetCard.......
  - 0 – IBM IEEE 802.2
  - 0 – IBM OS/2 NETBIOS
  - 0 – IBM TCP/IP

[Edit] [Remove] [Change number...]

Select OK when complete.

[OK]
[Cancel]
[Help]

This enables the installation, editing and removal of Adaptors and protocols on my system these are :
a) PCI Ethernet card
b) IBM IEEE 802.2 (somewhere I read this is best installed to get connectivity to Microsoft Clients, don't ask me why)
c) IBM OS/2 NETBIOS
d) IBM TCP/IP

The NetBIOS Parameters with the exception of hostname are set as default.

Configure NetBIOS Sockets Parameters

		Maximum values
Sessions	50	254
NCBs	80	255
Names	21	29
NetBIOS hostname	CAT	[View Details...]

[OK] [Cancel] [Help]

TCP/IP Configuration

Configure Network Interface Parameters

Interface to Configure

- LAN interface 0
- LAN interface 1
- LAN interface 2
- LAN interface 3
- LAN interface 4
- LAN interface 5
- LAN interface 6
- LAN interface 7
- loopback interface

Configuration Options

☑ Enable interface

○ Automatically, using DHCP
  ☐ also, using DDNS

● Manually, using:
  IP address
  10.0.0.1
  Subnet Mask

[Advanced Options]

[Undo] [Default] [Help]

[Network]
[Routing]
[Hostnames]
[Autostart]
[General]
[Security]
[Servers]
[Socks]
[Printing]
[Mail]
[Sendmail]

The TCP/IP Settings

are for me the biggest source of confusion although most settings are fine by default and as with the windows machine the IP address is configured manually.

How the Presentation Should Proceed
(remote install to TweadleDee described)

TweadleDee

Is connected to a printer with drivers installed, has OS/2 installed without Networking is powered off with the Installation boot diskette in drive a: and is connected by Ethernet cable to :

TweadleDum

Has working OS/2 installation complete with networking powered up, on a spare partition (hiss boo) Windows 98 or 95 is installed

The warp 4 CD is in the CD ROM drive
System Setup | Install/Remove is open
Remote install is double clicked and waiting for a response from :

TweadleDee

Is powered up to boot from install diskette
The second diskette is inserted when requested.
The Textmode install screen asks:
 OS/2 is already installed on this machine do you want to:

> 1) Re-install OS/2 (all previous settings will be lost)
> 2) Install OS/2 Networking

> OS/2 Networking is selected.
> The install proceeds.
> A re-boot will happen and a PM session starts.
> OS/2 Network install configuration.
> The requested parameters are entered.
> The install completes.

During the install there will be time to show some useful network TCP/IP apps on TweadleDum
e.g.   Internet Gate
           Web/2
           FTPD

> With the install complete on TweadleDee the printer and a Directory will be configured as shared resources and then demonstrated to be operational.

TweadleDum

> Will be shutdown and re-booted from the Windows partition.
> Control panel | Networking opened
> NetBEUI and TCP/IP settings will be configured and after a re-boot Find Computer will be used to find TweadleDee (shot explanation Windows will not automatically find OS/2 resources in its explorer after a resource (a folder in this example) will be mapped as a network drive and then may be found in windows explorer).
> My Computer | Printers
> The printer will be added as a network printer (windows printer drivers will be required)