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PC Compatibility Card: Window for Workgroups TCP/IP Setup 10/96

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TOPIC -----

This article provides instructions for installing Microsoft's TCP/IP protocols and services to your PC Compatibility Card.

DISCUSSION -----

Equipment required:

- DOS Compatibility Card or PC Compatibility Card
- Windows for Workgroups installation media.
- Microsoft TCP/IP (32-bit) for Windows for Workgroups

TCP/IP and Windows for Workgroups

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Windows for Workgroups has many TCP/IP product choices that add the TCP/IP protocol and services to your machine. One of these products is Microsoft's 32bit TCP/IP product. This lab will guide you through the installation of this software using the NDIS driver supplied on the Apple PC Card installer disk.

Installation

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Step 1

Start "Network Setup"

All network configuration is done with the "Network Setup" application found in the "Network" group on the desktop level. When this program starts you'll find an empty configuration.

Step 2

Press the "Networks..." button to begin the installation.

Step 3

Click the "Install Microsoft Windows Network:" button.

Step 4

Click the "OK" button.

You will return to the "Network Setup" window.

Step 5

Press the "Drivers..." button to add the network interface driver software.

An empty "Network Drivers" dialog appears.

Step 6

Click the "Add Adapter..." button.

After scanning the drive a list of the built-in driver interfaces appears.

Step 7

Select Unlisted or Updated Network Adapter option.

Since you need to use the driver provided on the "PC Software" disk of the DOS Compatibility Card software you must select the Unlisted or Updated Network Adapter" option.

Step 8

Click the "OK" button.

A window will appear, which allows you to navigate to the driver file on the disk. Leave the default of "A:\\" unchanged.

Step 9

Insert the "PC Compatibility Card, PC Image" installer disk.

Step 10

Click the "OK" button.

After the floppy is scanned you are presented with one driver to select, "PC Card Network Driver (NDIS2)".

Step 11

Select PC Card Network Driver (NDIS2)

Step 12

Click the "OK" button.

The original "Network Drivers" window is redisplayed with the new adapter driver and 2 default protocols, NetBEUI and IPX/SPX.

Beginning the TCP/IP protocol installation

Step 13

Click the "Add Protocol..." button.

Step 14

Select the "Unlisted or Updated Protocol" option.

Step 15

Click the "OK" button.

The next dialog box will ask you for the location of the protocol installer. Use the default of "A:\\"

Step 16

Insert the "TCP/IP-32 for Windows for Workgroups" installer disk and click the "OK" button.

Step 17

Select the only option available in the next window, "Microsoft TCP/IP-32 3.11b" and click the "OK" button.

After the protocol stack is copied from the disk, you return to the "Network Drivers" window which now shows the new TCP/IP protocol component.

Step 18

Remove the extra protocols by highlighting NetBEUI and IPX, then clicking the remove button.

Step 19

Select the TCP/IP protocol item and press the "Setup..." button.

Fill in all relevant information in the following windows. When all the TCP/IP information is entered, click the "OK" button to return to the "Network Drivers" window.

Note:

You must provide a minimum of the IP Address and Subnet Mask. Many Installations also require the Default Gateway and DNS Information.

Step 20

Click the "OK" button.

A screen asking for some client computer information will appear. After providing the relevant information, click the "OK" button.

Windows for Workgroups now begins to install the new components your selected options require. You might need to supply original Windows for Workgroups software during this process.

When all software has been loaded you'll be asked to restart the computer.

Step 21

Click the "No" button.

You now need to make the final configuration adjustment in the PROTOCOL.INI configuration file. In the PROTOCOL.INI file you need to make an entry for the correct Ethernet Frame Type.

Step 22

Use the "Notepad" application in the "Accessories" group and open the "C:\WINDOWS\PROTOCOL.INI" file.

After it is displayed find the section that begins with the "[MACNDIS]" heading. You'll find a line in that section that begins "ProtocolDot2...".

Step 23

Change the "ProtocolDot2... to ProtocolDIX="800,806,8035".

NOTE:

The "800,806,8035" needs to be enclosed in double quotes). This entry informs the NDIS driver you wish to use the correct Ethernet frame type for TCP/IP applications (ETHERNET_II).

Step 24

Save the file and quit Notepad.

Step 25

Quit Windows.

Step 26

Restart your computer.

Once you restart Windows you can enter a DOS shell and use PING to test your connectivity. You'll notice a new program group, "Microsoft TCP/IP-32" that contains some basic TCP/IP software utilities.

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