

MAX 200Plus Windows 95 User's Guide

Ascend Communications, Inc.

Ascend Access Control, Dynamic Bandwidth Allocation, DSLPipe, FrameLine, GRF 400 or GRF 1600, Hybrid Access, MAX, MAXDial, MAXLink Pro, MAX TNT, MegaPOP, Multiband, Multiband MAX, Multiband Bandwidth-on-Demand, MultiDSL, Multilink Protocol Plus, NetWarp 128 or NetWarp Pro, Pipeline, and Secure Access Firewall Multiband are trademarks of Ascend Communications, Inc. Ascend and the Ascend logo are registered trademarks and all Ascend product names are trademarks of Ascend Communications, Inc. Other brand and product names are trademarks of their respective holders. Other trademarks and trade names mentioned in this publication belong to their respective owners.

Copyright © 1997, Ascend Communications, Inc. All Rights Reserved.

This document contains information that is the property of Ascend Communications, Inc. This document may not be copied, reproduced, reduced to any electronic medium or machine readable form, or otherwise duplicated, and the information herein may not be used, disseminated or otherwise disclosed, except with the prior written consent of Ascend Communications, Inc.

Part Number 7820-0425-002 June 5, 1997

Ascend Customer Service

When you contact Ascend Customer Service, make sure you have this information:

- The product name and model
- The software and hardware options
- The software version
- The SPIDs (Service Profile Identifiers) associated with your product
- Your local telephone company switch type and operating mode, such as AT&T 5ESS Custom or Northern Telecom National ISDN-1
- Whether you are routing or bridging with your Ascend product
- The type of computer you are using
- A description of the problem

How to contact Ascend Customer Service

Telephone in the United States	800-ASCEND-4 (800-272-3634)
Telephone outside the United States	510-769-8027 (800-697-4772)
- UK	(+33) 492 96 5671
- Germany/Austria/Switzerland	(+33) 492 96 5672
- France	(+33) 492 96 5673
- Benelux	(+33) 492 96 5674
- Spain/Portugal	(+33) 492 96 5675
- Italy	(+33) 492 96 5676
- Scandinavia	(+33) 492 96 5677
- Middle East and Africa	(+33) 492 96 5679
E-mail	support@ascend.com
E-mail (outside US)	EMEAsupport@ascend.com
Facsimile (FAX)	510-814-2312
Customer Support BBS by modem	510-814-2302

You can also contact the Ascend main office by dialing 510-769-6001, or you can write to Ascend at the following address:

Ascend Communications
1275 Harbor Bay Parkway
Alameda, CA 94502

Need information on new features and products?

We are committed to constantly improving our products. You can find out about new features and product improvement as follows:

- For the latest information on the Ascend product line, visit our site on the World Wide Web:

<http://www.ascend.com/>

-
- For software upgrades, release notes, and addenda to this manual, visit our FTP site:

`ftp.ascend.com`

Contents

Ascend Customer Service.....	v
How to contact Ascend Customer Service.....	vi
Need information on new features and products?.....	vi
About this guide	ix
How to use this guide	ix
What you should know.....	ix
Chapter 1 Introduction.....	1-1
MAX 200Plus overview	1-2
System requirements	1-2
Workstation requirements	1-2
Remote node operation.....	1-2
Chapter 2 Configuring Windows 95.....	2-1
Before you begin	2-2
Preparing for configuration	2-2
Configuring the Modems control panel	2-3
Client for NetWare Networks.....	2-5
Configuring the Network control panel	2-6
Checking the network component properties.....	2-7
Configuring Dial-Up Networking	2-9
Connecting to the server.....	2-10
Disconnecting from the server	2-11
Client for Microsoft Networks (IP)	2-11
Configuring the Network control panel	2-11
Checking the Network component properties.....	2-13

Contents

Configuring Dial-Up Networking	2-14
Connecting to the server.....	2-16
Disconnecting from the server	2-16
Client for Microsoft Networks (IPX)	2-16
Configuring the Network control panel	2-17
Checking the Network component properties	2-18
Configuring Dial-Up Networking	2-20
Connecting to the server.....	2-21
Disconnecting from the server	2-22
TCP/IP	2-22
Configuring the Network control panel	2-22
Checking the Network component properties	2-24
Connecting to the server.....	2-26
Disconnecting from the server	2-27
Chapter 3 Troubleshooting.....	3-1
Windows 95 component problems	3-2
Modem problems.....	3-2
Network component problems	3-2
Index	Index-1

About this guide

This guide shows you how to configure your computer with Windows 95 for remote access with the MAX 200Plus.

How to use this guide

This guide contains the following chapters:

- Chapter 1, “Introduction,” includes an overview of remote access and communications with Windows 95.
- Chapter 2, “Configuring Windows 95,” describes how to set up Windows 95 for remote access.
- Chapter 3, “Troubleshooting,” describes some problems and ways to solve them.

This guide also includes an index.

What you should know

This guide assumes you know how to use computers and Windows 95 applications.

Introduction

This chapter introduces the MAX 200Plus. It covers these topics:

MAX 200Plus overview	1-2
System requirements	1-2
Remote node operation	1-2

MAX 200Plus overview

Windows 95 makes using the MAX 200Plus for remote access easy. The communications pieces you need are already built in to the operating system. Once connected, you can easily log in and become a node on a network. After you access the network through the MAX 200Plus, you will have full use of network resources such as file servers, printers, and electronic mail, with full access to any service that would normally be available to you if you were connected directly to the local network.

System requirements

The MAX 200Plus must be properly installed and configured on a working network at the site you want to access remotely.

Workstation requirements

Windows 95 uses your PC's communication (COM) ports that are connected to a modem to establish a connection to the file server over dial-up lines. For best results, the modem you use on both your remote PC and the MAX 200Plus server should be capable of speeds of 9600 baud or higher. This user's guide assumes you have already installed Windows 95 on your computer.

Your PC also needs to have a high-performance Universal Asynchronous Receiver-Transmitter (UART) chip capable of high speeds. A 16550 UART will give you the best performance and will work well in both DOS and Windows in either Standard or Enhanced mode.

Remote node operation

Windows 95 gives your computer the ability to make a remote node connection. Once you have established a remote node connection using Windows 95, you become a node on the network into which you dialed, and are able to work exactly as if you were sitting in the office where the network is located.

The basic difference between your remote connection and a local connection is the speed of the data transfer. For example, an Ethernet connection provides a maximum data transfer rate of 10 million bits per second (bps) between a PC and the network. A Windows 95 dial-up connection on a high-performance V.34 modem only provides a data transfer rate of 28,800 bps.

Configuring Windows 95

This chapter explains how to configure the Windows 95 pieces for remote access. These instructions assume that the MAX 200Plus is running on your network and that you have been allowed remote access to your network. The chapter includes these topics:

Before you begin	2-2
Preparing for configuration	2-2
Client for NetWare Networks	2-5
Client for Microsoft Networks (IP)	2-11
Client for Microsoft Networks (IPX)	2-16
TCP/IP	2-22

Before you begin

Before you actually begin configuring your Windows 95 system, you must gather some information from the systems or network administrator at the site you want to access remotely. Here is a list of the information you will need.

- Remote network protocol (IP or IPX)
- MAX 200Plus phone number
- Administrator-assigned user name and password
- Whether to use an encrypted (CHAP) or non-encrypted (PAP) password
- Static IP address or ability to use dynamic IP addressing (IP protocol only)
- IP addresses of any servers you will need to use (IP protocol only)

Preparing for configuration

Make sure that Dial-Up Networking has been installed. Double-click the My Computer icon and see if an icon for Dial-Up Networking is displayed. If it has not been installed, use the Add/Remove Programs control panel to add it to your system.

- 1** Open the Control Panel by choosing Settings: Control Panel from the Start menu.
- 2** Double-click Add/Remote Programs.
- 3** Click the Windows Setup tab.
- 4** Double-click the Communications entry in the Components list.
- 5** Make sure the boxes for Dial-Up Networking and Phone Dialer are checked.
- 6** Click OK to close the Communications window.

- 7 Click OK, and follow the instructions on the screen to complete installation.

Note: You may be asked to use your original Windows 95 installation diskettes or CD-ROM to load drivers.

Configuring the Modems control panel

The Modems control panel lets you set up and configure modems and set dialing properties.

Configuring the Modem

- 1 Open the Control Panel by choosing Settings:Control Panel from the Start menu.
- 2 Double-click Modems.
PC Card and internal modems are installed when Windows 95 starts. If you want to add a modem, click Add and follow the instructions on the screen. When you set up a modem for the first time, the Wizard opens automatically.
- 3 Select the modem you want to configure.
- 4 Click Properties.
- 5 Check the Maximum speed indicated. Check the guide that came with your modem for the correct transmission speed; otherwise, use these guidelines:

If your modem speed is...	Use this maximum speed...
14,400 bps	57,600
28,000 bps	115,200

- 6 Reset the Speaker volume, if you want.
- 7 Click the Connection tab. Click Advanced.

- 8 Make sure that the check boxes for Use error control and Required to connect are checked. This ensures accurate data transmission and reception.
- 9 Click OK to close the window.
- 10 Click OK to close the Modem window.
- 11 Click Close to close the Modems Properties window.

You must also set a dialing property.

Setting Dialing Properties

Dialing Properties controls how your calls are dialed. You should set one up for each location you want to use for remote access.

- 1 Click Dialing Properties in the Modems control panel.
- 2 Click New to add a location.
- 3 Enter a new location name and click OK.
- 4 Enter the correct information for area code and country.
- 5 Enter the dialing information.

Note: If you must dial a “9” for an outside local line, enter “9” in the “for long distance” field. If you use a separate digit for long distance line access, such as from some hotels, enter that number in the “for long distance” field.

- 6 Click OK to close the Dialing Properties window.
- 7 Click Close to close the Modems Properties window.

Now that you have set up the dialing pieces for Windows 95, you are ready to set up the networking pieces. You can configure Windows 95 in several ways. The method you choose is based upon the network you

want to access remotely. Consult the network or system administrator at that site for more information.

If the remote network is...	Choose this method	Described on page
NetWare (IPX)	Client for NetWare Networks	2-5
Microsoft Windows Network and IP	Client for Microsoft Networks (IP)	2-11
Microsoft Windows Network and IPX	Client for Microsoft Networks (IPX)	2-16
IP (to use an application, such as Telnet, Ping, or Netscape)	TCP/IP	2-22

Client for NetWare Networks

This section describes how to configure your Windows 95 system for remote access with the Client for NetWare Networks. The basic steps are:

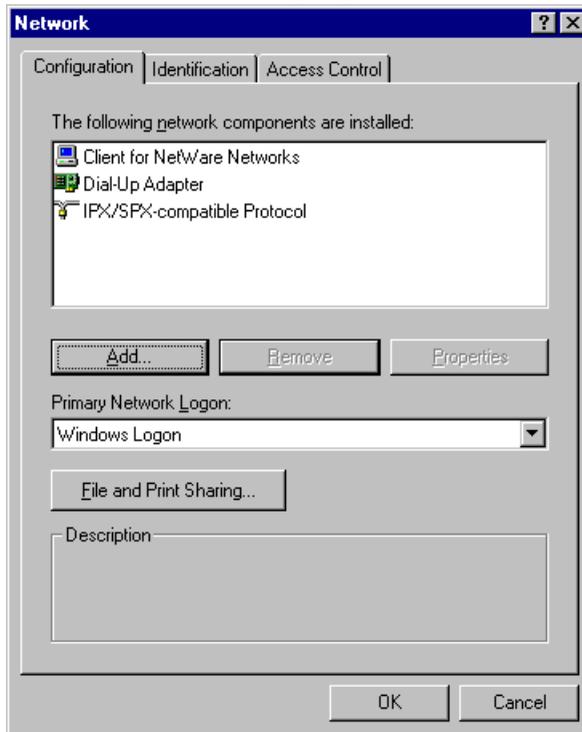
- 1** Configuring the Network control panel.
- 2** Configuring Dial-Up Networking.

Note: Before you begin configuration, make sure you have the Windows 95 installation diskettes or CD-ROM available. Not all the necessary communications pieces may have been added during installation.

Configuring the Network control panel

Now, you can select the correct pieces to use in the Network control panel. You can select three network components to use remote access.

- 1 Open the Control Panel by choosing Settings: Control Panel from the Start menu.
- 2 Double-click Network to open this window. The illustration below shows the basic components you should have. If these are not listed, continue with the remaining steps below.



- 3 If the Client for NetWare Networks is not displayed, click Add.
- 4 Select Client and click Add.
- 5 Select Microsoft in the Manufacturers list.

- 6 Select Client for NetWare Networks in the Network Clients list.
- 7 Click OK.
The window closes and the client is added to the network component list.
- 8 If Dial-Up Adapter does not appear, click Add.
- 9 Select Adapter in the list of component types and click Add.
- 10 Scroll through the list of manufacturers and select Microsoft.
- 11 Select Dial-Up Adapter in the Network Adapters list. Click OK.
- 12 If IPX/SPX-compatible Protocol is not displayed in the network component list, click Add.
- 13 Select Protocol and click Add.
- 14 Select Microsoft in the Manufacturers list.
- 15 Select IPX/SPX-compatible Protocol in the Network Protocols list.
- 16 Click OK. The window closes and the protocol is added to the network component list. Compare the window with the illustration above.

Checking the network component properties

Now that you have chosen the network components, you have to make sure their settings are correct.

Client properties

- 1 Select the Client for NetWare Networks in the Network control panel and click Properties.
- 2 Click the General tab. Enter the name of the server you want to connect to and the first network drive. F is a good default value. Click the box to enable logon script processing.
- 3 Click OK to close the window.

Adapter properties

- 1 Select the Dial-Up Adapter in the Network control panel and click Properties.
- 2 Click the Driver Type tab. Select Enhanced mode (32 bit and 16 bit) NDIS driver.
- 3 Click the Bindings tab.
- 4 Click the box to bind the adapter to the IPX/SPX-compatible Protocol.
- 5 Click OK to close the window.

Protocol properties

- 1 Select the IPX/SPX-compatible Protocol in the Network control panel.
- 2 Click Properties.
- 3 Click the Bindings tab.
- 4 Click the box to bind the protocol to the Client for NetWare Networks.
- 5 Click OK to close the window.

Primary Network Logon

Make sure the Primary Network Logon in the Network control panel is set for Windows Logon.

Click OK to close the Network control panel. You may be asked to insert your Windows 95 installation disks or CD-ROM. You are prompted to restart your computer before the new components are in effect.

Configuring Dial-Up Networking

Dial-Up Networking uses the network components and modem settings to connect to the MAX 200Plus. You need to create a connection for each remote access server to which you want to connect.

Creating a connection

- 1** Open Dial-Up Networking by selecting Programs:Accessories:Dial-Up Networking from the Start menu.
- 2** Create a new connection by double-clicking Make a New Connection. (If you have not created a connection previously, this Wizard opens automatically).
- 3** Enter the name you want to use for the computer you are calling.
- 4** Select a modem from the list and click Next.
- 5** Enter the area code and telephone number and select a country from the list and click Next.
- 6** Click Finish to complete connection creation.

The connection file you created is added to the Dial-Up Networking panel.

Configuring the connection

- 1** Click your connection file icon and choose Properties from the File menu.
- 2** Click Configure.
- 3** Click the Connection tab and click Advanced.
- 4** Make sure the check box for Use error control and Required to connect is selected to ensure accurate data transmission and reception. Click OK.
- 5** Click OK to close the modem properties window.

- 6 Click Server Type. Make sure these options are selected.

For this window option...	Select this...
Type of Dial-Up Server	PPP: Windows 95, Windows NT 3.5, Internet
Log on to network	Enabled
Enable software compression	Disabled
Require encrypted password	[Contact your network or system administrator for the correct setting]
IPX/SPX Compatible	Enabled

- 7 Click OK to close the window.
- 8 Click OK to close the connection properties window.

Connecting to the server

Before you try to make a connection, be sure your modem is connected to a live phone line and you have been given access rights by the MAX 200Plus administrator.

- 1 Double-click the icon for your connection file.
- 2 Enter your User name and Password.
- 3 Select the Dialing from location and check the Phone number for accuracy. (You can make changes to the dialing string, if necessary.)
- 4 Click Connect to make the connection. Progress dialogs appear during the connection process.

Disconnecting from the server

To disconnect, click Disconnect in the Connection window. This immediately disconnects from the remote server and takes your modem off line.

Client for Microsoft Networks (IP)

This section describes how to configure your Windows 95 system for remote access with the Client for Microsoft Networks and IP. The basic steps are:

- 1 Configuring the Network control panel.
- 2 Configuring Dial-Up Networking.

Note: Before you begin configuration, make sure you have the Windows 95 installation diskettes or CD-ROM available. Not all the necessary communications pieces may have been added during installation.

Configuring the Network control panel

Now, you'll select the correct pieces to use in the Network control panel. You'll select three network components to use remote access.

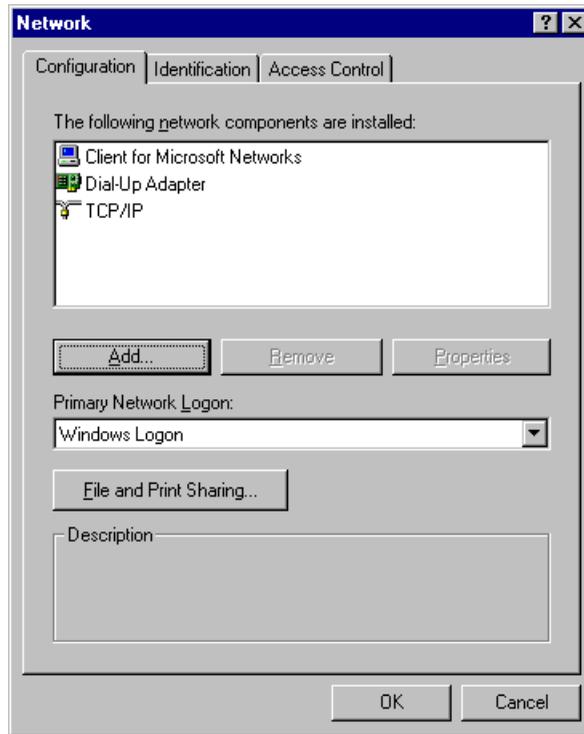
- 1 Open the Control Panel by choosing Settings:Control Panel from the Start menu.

Configuring Windows 95

Client for Microsoft Networks (IP)

2 Double-click Network.

The Network window appears. You should have at least these items displayed. If one or more are missing, follow the remaining steps in this list to correctly configure the Network control panel.



- 3 If the Client for Microsoft Networks is not displayed, click Add.
- 4 Select Client and click Add.
- 5 Select Microsoft in the Manufacturers list.
- 6 Select Client for Microsoft Networks in the Network Clients list.
- 7 Click OK. The window closes and the client is added to the network component list.
- 8 If Dial-Up Adapter is not displayed click Add.

- 9 Select Adapter in the list of component types, and click Add.
- 10 Scroll through the list of manufacturers and select Microsoft. Click OK.
- 11 Select Dial-Up Adapter in the Network Adapters list. Click OK.
- 12 If TCP/IP is not displayed in the network component list, click Add.
- 13 Select Protocol from the list of component types and click Add.
- 14 Select Microsoft in the Manufacturers list.
- 15 Select TCP/IP in the Network Protocols list.
- 16 Click OK. The window closes and the protocol is added to the network component list.

Checking the Network component properties

Now that you have chosen the network components, you have to make sure their settings are correct.

Client properties

- 1 Select the Client for Microsoft Networks in the Network control panel and click Properties.
- 2 Click OK to close the window.

Adapter properties

- 1 Select the Dial-Up Adapter in the Network control panel and click Properties.
- 2 Click the Driver Type tab. Select Enhanced mode (32 bit and 16 bit) NDIS driver.
- 3 Click the Bindings tab. Click the box to bind the adapter to TCP/IP.
- 4 Click OK to close the window.

Protocol properties

- 1 Select TCP/IP in the Network control panel and click Properties.
- 2 Click the IP Address tab. Enable Obtain an IP address automatically.

Configuring Windows 95

Client for Microsoft Networks (IP)

- 3 Click the WINS Configuration tab. Disable WINS Resolution.
- 4 Click the Gateway tab. Make sure no gateway addresses are entered.
- 5 Click the Bindings tab. Click the box to bind the protocol to the Client for Microsoft Networks. If NetBIOS has been automatically added, make sure it is not bound to the Microsoft Client.
- 6 Click the DNS Configuration tab. Enable DNS. Check with the system or network administrator at the site to which you will connect.
- 7 Click OK to close the window.

Primary Network Logon

Make sure the Primary Network Logon in the Network control panel is set for Windows Logon.

Click OK to close the Network control panel. You may be asked to insert your Windows 95 installation disks or CD-ROM. You are prompted to restart your computer before the new components are in effect.

Configuring Dial-Up Networking

Dial-Up Networking uses the network components and modem settings to connect to the MAX 200Plus. You need to create a connection for each remote access server to which you want to connect.

Creating a connection

- 1 Open Dial-Up Networking by selecting Programs:Accessories:Dial-Up Networking from the Start menu.
- 2 Create a new connection by double-clicking Make a New Connection. (If you haven't created a connection previously, this Wizard opens automatically).
- 3 Enter the name you want to use for the computer you are calling. Select a modem from the list. Click Next.
- 4 Enter the area code and telephone number and select a country from the list. Click Next.

- 5 Click Finish to complete connection creation. The connection file you created is added to the Dial-Up Networking panel.

Configuring the connection

- 1 Click your connection file icon and choose Properties from the File menu.
- 2 Click Configure.
- 3 Click the Connection tab. Click Advanced.
- 4 Make sure the checkbox for Use error control and Required to connect is selected to ensure accurate data transmission and reception. Click OK.
- 5 Click OK to close the modem properties window.
- 6 Click Server Type. Make sure these options are selected.

For this window option...	Select this...
Type of Dial-Up Server	PPP: Windows 95, Windows NT 3.5, Internet
Log on to network	Enabled
Enable software compression	Disabled
Require encrypted password	[Contact your network or system administrator for the correct setting]
TCP/IP	Enabled

- 7 Click OK to close the window.
- 8 Click OK to close the connection properties window.

Connecting to the server

Before you try to make a connection, be sure your modem is connected to a live phone line and you have been given access rights by the MAX 200Plus administrator.

- 1 Double-click the icon for your connection file.
- 2 Enter your User name and Password.
- 3 Select the Dialing from location and check the Phone number for accuracy. (You can make changes to the dialing string, if necessary.)
- 4 Click Connect to make the connection. Progress dialogs are displayed during the connection process.

Disconnecting from the server

To disconnect, click Disconnect in the Connection window. This immediately disconnects from the remote server and takes your modem off line.

Client for Microsoft Networks (IPX)

This section describes how to configure your Windows 95 system for remote access with the Client for Microsoft Networks and IPX. The basic steps are:

- 1 Configuring the Network control panel.
- 2 Configuring Dial-Up Networking.

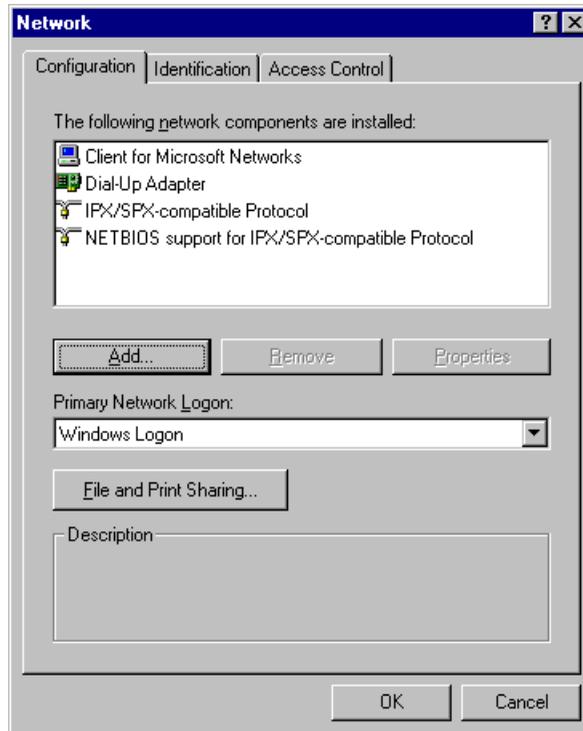
Note: Before you begin configuration, make sure you have the Windows 95 installation diskettes or CD-ROM available. Not all the necessary communications pieces may have been added during installation.

Configuring the Network control panel

Now, you'll select the correct pieces to use in the Network control panel. You'll select three network components to use remote access.

- 1 Open the Control Panel by choosing Settings: Control Panel from the Start menu.
- 2 Double-click Network.

The Network window appears. You should have at least these items displayed. If one or more are missing, follow the rest of the steps in this list to complete configuring the Network control panel.



- 3 If the Client for Microsoft Networks is not displayed, click Add.

Configuring Windows 95

Client for Microsoft Networks (IPX)

- 4 Select Client and click Add.
- 5 Select Microsoft in the Manufacturers list.
- 6 Select Client for Microsoft Networks in the Network Clients list.
- 7 Click OK. The window closes and the client is added to the network component list.
- 8 If Dial-Up Adapter is not displayed, click Add.
- 9 Select Adapter in the list of component types and click Add.
- 10 Scroll through the list of manufacturers and select Microsoft.
- 11 Select Dial-Up Adapter in the Network Adapters list. Click OK.
- 12 If IPX/SPX-compatible Protocol is not displayed in the network component list, click Add.
- 13 Select Protocol and click Add.
- 14 Select Microsoft in the Manufacturers list.
- 15 Select IPX/SPX-compatible Protocol in the Network Protocols list.
- 16 Click OK. The window closes and the protocol is added to the network component list.

Checking the Network component properties

Now that you've chosen the network components, you have to make sure their settings are correct.

Client properties

- 1 Select the Client for Microsoft Networks in the Network control panel and click Properties.
- 2 Enable Quick logon in the Network logon options.
- 3 Click OK to close the window.

Adapter properties

- 1 Select the Dial-Up Adapter in the Network control panel and click Properties.
- 2 Click the Driver Type tab. Select Enhanced mode (32 bit and 16 bit) NDIS driver.
- 3 Click the Bindings tab. Click the box to bind the adapter to the IPX/SPX-compatible Protocol.
- 4 Click OK to close the window.

Protocol properties

- 1 Select the IPX/SPX-compatible Protocol in the Network control panel and click Properties.
- 2 Click the NetBIOS Type tab. Click the checkbox to enable NetBIOS over IPX/SPX.
- 3 Click the Bindings tab. Click the box to bind the protocol to the IPX/SPX-compatible protocol.
- 4 Click OK to close the window.

Primary Network Logon

Make sure the Primary Network Logon in the Network control panel is set for Windows Logon.

Click OK to close the Network control panel. You may be asked to insert your Windows 95 installation disks or CD-ROM. You are prompted to restart your computer before the new components are in effect.

Configuring Dial-Up Networking

Dial-Up Networking uses the network components and modem settings to connect to the MAX 200Plus. You need to create a connection for each remote access server you want to connect to.

Creating a connection

- 1** Open Dial-Up Networking by selecting Programs:Accessories:Dial-Up Networking from the Start menu.
- 2** Create a new connection by double-clicking Make a New Connection. (If you haven't created a connection previously, this Wizard opens automatically).
- 3** Enter the name you want to use for the computer you are calling. Select a modem from the list. Click Next.
- 4** Enter the area code and telephone number and select a country from the list. Click Next.
- 5** Click Finish to complete connection creation. The connection file you created is added to the Dial-Up Networking panel.

Configuring the connection

- 1** Click your connection file icon and choose Properties from the File menu.
- 2** Click Configure.
- 3** Click the Connection tab. Click Advanced.
- 4** Make sure the check box for Use error control and Required to connect is selected to ensure accurate data transmission and reception. Click OK.
- 5** Click OK to close the modem properties window.

- 6 Click Server Type. Make sure these options are selected.

For this window option...	Select this...
Type of Dial-Up Server	PPP: Windows 95, Windows NT 3.5, Internet
Log on to network	Enabled
Enable software compression	Disabled
NetBEUI	Enabled
Require encrypted password	[Contact your network or system administrator for the correct setting]
IPX/SPX Compatible	Enabled

- 7 Click OK to close the window.
- 8 Click OK to close the connection properties window.

Connecting to the server

Before you try to make a connection, be sure your modem is connected to a live phone line and you have been given access rights by the MAX 200Plus administrator.

- 1 Double-click the icon for your connection file.
- 2 Enter your User name and Password.
- 3 Select the Dialing from location and check the Phone number for accuracy. (You can make changes to the dialing string, if necessary.)
- 4 Click Connect to make the connection. Progress dialogs are displayed during the connection process.

Disconnecting from the server

To disconnect, click Disconnect in the Connection window. This immediately disconnects from the remote server and takes your modem off line.

TCP/IP

This section describes how to configure your Windows 95 system for remote access with TCP/IP. The basic steps are:

- 1 Configuring the Network control panel.
- 2 Configuring Dial-Up Networking.

Note: Before you begin configuration, make sure you have the Windows 95 installation diskettes or CD-ROM available. Not all the necessary communications pieces may have been added during installation.

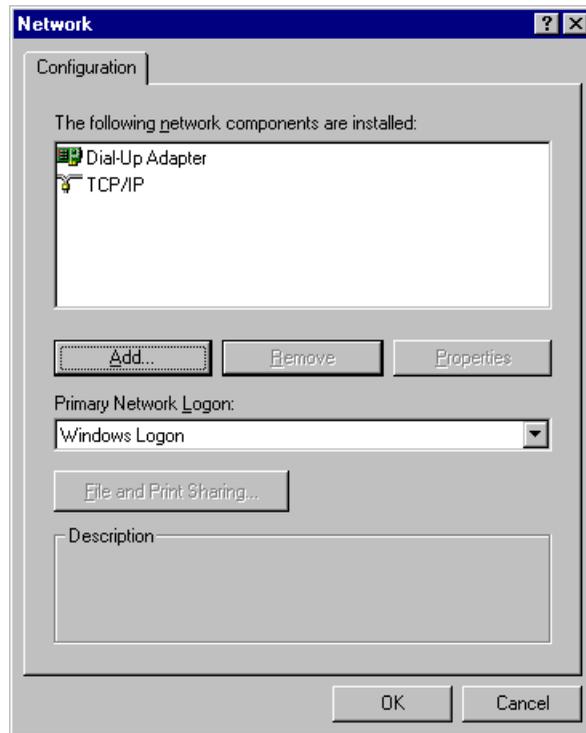
Configuring the Network control panel

Now you'll select the correct pieces to use in the Network control panel. You'll select two network components to use remote access.

- 1 Open the Control Panel by choosing Settings:Control Panel from the Start menu.

2 Double-click Network.

The Network window appears. You should have at least these components displayed. If these are not shown, continue with the steps in this list to complete configuring the Network control panel.



- 3** If Dial-Up Adapter is not displayed, click Add.
- 4** Select Adapter in the list of component types and click Add.
- 5** Scroll through the list of manufacturers and select Microsoft.
- 6** Select Dial-Up Adapter in the Network Adapters list. Click OK.
- 7** If TCP/IP is not displayed in the network component list, click Add.
- 8** Select Protocol and click Add.

- 9 Select Microsoft in the Manufacturers list.
- 10 Select TCP/IP in the Network Protocols list.
- 11 Click OK. The window closes and the protocol is added to the network component list.

Checking the Network component properties

Now that you've chosen the network components, you have to make sure their settings are correct.

Adapter properties

- 1 Select the Dial-Up Adapter in the Network control panel and click Properties.
- 2 Click the Driver Type tab. Select Enhanced mode (32 bit and 16 bit) NDIS driver.
- 3 Click the Bindings tab. Click the box to bind the adapter to the TCP/IP.
- 4 Click OK to close the window.

Protocol properties

- 1 Select TCP/IP in the Network control panel and click Properties.
- 2 Click the IP Address tab. Enable Obtain an IP address automatically.
- 3 Click the WINS Configuration tab. Disable WINS Resolution.
- 4 Click the Gateway tab. Make sure no gateway addresses are entered.
- 5 Click the Bindings tab. Make sure the TCP/IP protocol is *not* by clients. When you move to another window, you may be warned that you haven't bound the protocol. This is correct! You do not want to select a binding.
- 6 Click the DNS Configuration tab. Enable DNS. Check with the system or network administrator at the site you will be connecting to.
- 7 Click OK to close the window.

Primary Network Logon

Make sure the Primary Network Logon in the Network control panel is set for Windows Logon.

Click OK to close the Network control panel. You may be asked to insert your Windows 95 installation disks or CD-ROM. You are prompted to restart your computer before the new components are in effect.

Configuring Dial-Up Networking

Dial-Up Networking uses the network components and modem settings to connect to the MAX 200Plus. You need to create a connection for each remote access server you want to connect to.

Creating a connection

- 1 Open Dial-Up Networking by selecting Programs:Accessories:Dial-Up Networking from the Start menu.
- 2 Create a new connection by double-clicking Make a New Connection. (If you haven't created a connection previously, this Wizard opens automatically).
- 3 Enter the name you want to use for the computer you are calling. Select a modem from the list. Click Next.
- 4 Enter the area code and telephone number and select a country from the list. Click Next.
- 5 Click Finish to complete connection creation. The connection file you created is added to the Dial-Up Networking panel.

Configuring the connection

- 1 Click your connection file icon and choose Properties from the File menu.
- 2 Click Configure.
- 3 Click the Connection tab. Click Advanced.

Configuring Windows 95

TCP/IP

- 4 Make sure the checkbox for Use error control and Required to connect is selected to ensure accurate data transmission and reception. Click OK.
- 5 Click OK to close the modem properties window.
- 6 Click Server Type. Make sure these options are selected.

For this window option...	Select this...
Type of Dial-Up Server	PPP: Windows 95, Windows NT 3.5, Internet
Log on to network	Enabled
Enable software compression	Disabled
Require encrypted password	[Contact your network or system administrator for the correct setting]
TCP/IP	Enabled

- 7 Click TCP/IP settings and make sure your name server address is set up correctly. Use the value of 0.0.0.0.
- 8 Click OK to close the window.
- 9 Click OK to close the connection properties window.

Connecting to the server

Before you try to make a connection, be sure your modem is connected to a live phone line and have been given access rights by the MAX 200Plus administrator.

- 1 Double-click the icon for your connection file.
- 2 Enter your User name and Password.

- 3 Select the Dialing from location and check the Phone number for accuracy. (You can make changes to the dialing string, if necessary.)
- 4 Click Connect to make the connection. Progress dialogs are displayed during the connection process.
- 5 Once you are connected to the MAX 200Plus server, you can connect to other servers with IP addresses using Telnet or a third-party product like Netscape, FTP, or Gopher.

Disconnecting from the server

To disconnect, click Disconnect in the Connection window. This immediately disconnects from the remote server and takes your modem off line.

Troubleshooting

This chapter describes some common problems, instructions for diagnosing problems, and some suggestions on how to solve them. It covers the following topics:

- Windows 95 component problems 3-2
- Modem problems 3-2
- Network component problems 3-2

If the hints and instructions in this chapter don't solve your problem, talk to your network or system administrator or contact Ascend Customer Service.

Windows 95 component problems

Make sure you have installed all the Windows 95 components. You must have Dial-Up Networking installed and configured as well as all Network components. Refer to Chapter 2, “Configuring Windows 95,” for more information.

Modem problems

If you are using a PC Card modem, and you don’t see the COM port you want to use, you may not have your PC Card drivers loaded. Refer to your Windows 95 documentation and the PC Card Control Panel for more information.

Make sure you have selected the correct baud rate for your modem. Refer to Chapter 2, “Configuring Windows 95,” for more information.

Network component problems

Protocol binding can cause some problems

If you are using...	Do this...
Client for Microsoft Networks (IP)	Bind the TCP/IP protocol to the client; don’t bind the IPX protocol to the client
Client for Microsoft Networks (IPX)	Bind the IPX protocol to the client
TCP/IP	Don’t bind the TCP/IP protocol to any client

Index

A

Adapter properties 2-8, 2-13, 2-19, 2-24

B

Bindings 2-8, 2-13, 2-14, 2-19, 2-24

C

CHAP 2-2

Client for Microsoft Networks (IP) 2-5, 2-11

Client for Microsoft Networks (IPX) 2-5, 2-16

Client for NetWare Networks 2-5

configuration

Client for Microsoft (IP) 2-11

Client for Microsoft Networks (IPX) 2-16

Client for NetWare Networks 2-7

Dial-Up Networking for Microsoft (IP) 2-14

Dial-Up Networking for Microsoft (IPX) 2-20

Dial-Up Networking for NetWare 2-9

Dial-Up Networking for TCP/IP 2-25

for remote access with TCP/IP 2-22

Modems 2-3

Network control panel for Microsoft (IP) 2-11

Network control panel for NetWare 2-6

Network control panel for TCP/IP 2-22

preparation for Windows 95 2-2

connections

configuring for Microsoft (IP) 2-14

configuring for Microsoft (IPX) server 2-20

configuring for NetWare 2-9

configuring for TCP/IP remote access 2-22

creating for Microsoft (IPX) server 2-20

creating for NetWare 2-9

creating for TCP/IP 2-25

local vs. remote 1-3

see also disconnecting

to Microsoft (IP) server 2-16

to Microsoft (IPX) server 2-21

to NetWare server 2-10

to TCP/IP server 2-26

D

Dialing Properties

setting 2-4

Dial-Up Networking

configuring for Microsoft (IP) 2-14

configuring for NetWare 2-9

configuring TCP/IP 2-25

disconnecting

from Microsoft (IP) server 2-16

from Microsoft (IPX) server 2-22

from NetWare server 2-11

from TCP/IP server 2-27

see also connections

Index

M

M

MAX 200 Plus

- described 1-2

- remote node operation 1-2

- system requirements for 1-2

Microsoft Networks (IP) 2-11

Microsoft Networks (IPX) 2-16

Modems

- configuring 2-3

- troubleshooting for 3-2

N

NetWare Networks 2-5

Network component

- troubleshooting for 3-2

Network control panel

- checking for TCP/IP 2-24

- checking setting for Microsoft (IPX) 2-18

- checking setting for NetWare 2-7

- checking the setting for Microsoft (IP) 2-13

- configuring for Microsoft (IP) 2-11

- configuring for Microsoft (IPX) 2-17

- configuring for NetWare Networks 2-6

- configuring for TCP/IP 2-22

R

remote connections

- configuring for TCP/IP 2-22

- local vs. 1-3

remote node

- described 1-2

S

servers

- connecting to Microsoft (IP) 2-16

- connecting to NetWare

- connecting to TCP/IP 2-26

- disconnecting from Microsoft (IP) 2-16

- disconnecting from NetWare

- disconnecting from TCP/IP 2-27

T

TCP/IP 2-22

- troubleshooting 3-2

W

Windows 95

- configuration preparation for 2-2

- configuring for Microsoft (IP) 2-11

- configuring for Microsoft (IPX) 2-16

- configuring for NetWare Networks 2-6

- configuring for TCP/IP 2-22

- required information for running 2-2

- troubleshooting for 3-2

- workstation requirements 1-2