

Front

Novell Internet Access Server 4.1 Remote Access Client Guide

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Preface

About This Guide

Introduction

This guide describes how users can configure and use various software to establish connections for remote access and remote control. It includes an overview of IntranetWare™ remote access services, information about using Mac2NCS, and information about using third-party dialers with remote access services. For additional information about Remote Access Dialer and Win2NCS, refer to the online documentation included with the software.

This guide assumes that you have a basic familiarity with IntranetWare software.

Chapter

1 *Overview of Remote Access Services*

NetWare[®] provides client software that allows users to dial in to the network from a remote workstation or dial out from the network to remote services such as bulletin boards or host computers. This allows users to access important information from anywhere at any time.

Remote access services includes the following software:

- Windows-to-NCS (Win2NCS)
- Macintosh-to-NCS (Mac2NCS)
- Novell Remote Access Dialer for Windows 3.x

In addition, remote access services provides server support for Apple* Computer's Apple Remote Access software. Apple Remote Access provides user interfaces for connecting to a remote access services port.

The remote access services dial-out service for Macintosh* (Mac2NCS) requires application packages that support the standard serial driver interface.

The remote access services dial-out service for Windows* (Win2NCS) requires application packages that support the standard Microsoft* Communications API.

Users can also access remote access services using the following dialer software:

- Windows NT* 3.51 Remote Access Services
- Windows NT 4.0 Remote Access Services
- DOSDIAL
- Windows Dialer

- LAN Workplace[®] 5.0
- Novell[®] Mobile Services (for Windows 95* and Windows 3.x)

Dialing In to the Network

A dial-in connection can be made through a modem dialing directly to a modem that is attached to a Novell Internet Access Server 4.1 server. Once remote users have established a connection to the network, they have access to any resources available on the network. These resources can include mainframe hosts, UNIX* networks, application servers, etc. There are two types of dial-in connections: remote node connections and remote control connections.

Remote Node Connections

With remote node connections, the remote PC functions as if it were a workstation connected directly to the network. All data required for a session (file data and application packets) is transferred over the communications link. Data processing occurs on the remote PC. Remote node connections are accomplished by using dial-in software to dial in to the network access resources.

Macintosh remote node connections are made through Apple's Remote Access Service and Novell's ARAS service.

Remote Control Connections

With remote control connections, the remote PC controls a dedicated workstation on the network. Only keystrokes and screen updates are transferred over the communications link. Data processing occurs on the dedicated workstation on the network.

If you have a modem attached to your workstation on the network, you can dial directly in to your computer and remotely control it using third-party software such as pcAnywhere*, ReachOut*, PROCOMM*, LapLink*, and CarbonCopy. If you do not have a modem attached to your workstation, you can dial in to your workstation through the modem pool attached to your server using Win2NCS or Mac2NCS and third-party software.

For information on using Win2NCS to remotely control a computer, see the help file (DIALOUT.HLP) included with Win2NCS. For information on using Mac2NCS, see Chapter 3, “Using Mac2NCS to Dial In to and Dial Out of the Network,” on page 21

Dialing Out of the Network

As with remote control connections, there are two ways to dial out of the network. If you have a modem attached to your machine, you can dial out using your local modem. If you do not have a modem attached, you can dial out of the network through the modem pool to such remote services as bulletin boards or host computers.

For information on using Win2NCS to dial out of the network or to create a remote node connection, see the help file (DIALOUT.HLP) included with Win2NCS. For information on using Mac2NCS, see Chapter 3, “Using Mac2NCS to Dial In to and Dial Out of the Network,” on page 21

Installation, Configuration, and User Instructions

The installation and configuration instructions for Win2NCS and Remote Access Dialer are included in the Novell Client™ online help files for each platform.

In addition, this guide provides instructions for Macintosh software installation and configuration.

- For information on establishing a Macintosh remote node connection, see Chapter 2, “Using Apple Remote Access Client to Dial In to the Network,” on page 11
- For information on using Mac2NCS, see Chapter 3, “Using Mac2NCS to Dial In to and Dial Out of the Network,” on page 21
- For information on using remote access services with non-Novell dialers, see Chapter 4, “Using Third-Party Dialers with Remote Access Services,” on page 33

Software Distribution and Licensing

Remote access services allows the network supervisor to distribute the software to any number of remote users .

The remote access dialer software is installed automatically when you install the Novell Client.

The software for MAC2NCS (RAMAC.EXE) is available on the Novell Client CD-ROM and is located in the PRODUCTS\MAC2NCS directory. RAMAC.EXE is a DOS formatted, compressed version of the Remote Access Mac Client folder. This folder contains the installer for Mac2NCS and the Set Remote Access Password utility. Instructions for making these files available to users are included in the RAMAC.TXT file included in the same directory.

To improve the performance of Point-to-Point Protocol (PPP) connections, NetWare™ files—LOGIN.EXE, LOGOUT.EXE, ATTACH.EXE, MAP.EXE, CX.EXE, NLIST.EXE, and SLIST.EXE—should be distributed to the remote PCs.

Any other program that is invoked in the user login script should also be distributed to the remote PCs.

PPP-based remote node support is provided on the Novell Internet Access Server. Apple Remote Access is available from Apple Computer, Inc.

This guide does not provide instructions for installing and configuring third-party applications. To install and configure third-party applications, refer to the documents that are provided with the applications. Instructions for configuring Apple Remote Access are discussed briefly in Chapter 4, “Using Third-Party Dialers with Remote Access Services,” on page 33 For more details, refer to the *Apple Remote Access User's Guide* .

Chapter

2 *Using Apple Remote Access Client to Dial In to the Network*

This chapter describes how to use the Apple Remote Access from Apple Computer, Inc. and the Novell® Apple Remote Access Service to dial in to the network and establish a remote node connection. Apple Remote Access is the program that you run on the remote Macintosh to connect to the network. You must purchase this product from Apple Computer, Inc.

This chapter includes the following tasks:

- “Establishing a Connection” on page 13
- “Logging In to the Network” on page 14
- “Setting the Remote Access Password” on page 16
- “Disconnecting from the Network” on page 18

Hardware and Software Requirements

To use Apple Remote Access, you need the following:

- A Macintosh computer running system software version 7.0 or later
- At least 2 MB of memory and a hard disk
- If you are using Novell Client for Macintosh, at least 4 MB of memory
- A Hayes*-compatible modem with a data rate of at least 2400 bps

Hint

We recommend that you always use the latest ARA modem scripts. Contact Apple or the modem manufacturer for the most current ARA modem scripts for your modem. If your modem is not listed in ARA, Apple offers a utility to create your own ARA modem scripts.

- Apple Remote Access software

- The Set Remote Access Password utility to modify the remote access password

This utility is shipped as a DOS executable on the Novell Client CD-ROM. Contact your network supervisor for access to this utility.

- If you will be logging in to a Novell Internet Access Server 4.1 server, you need the Novell Client for Macintosh program, including the MacIPX[®] program.

Installing Novell Client for Macintosh

If you will use the Apple Remote Access software to access a Novell Internet Access Server 4.1 server, you need to install the Novell Client for Macintosh utility on your remote Macintosh, if it is not already installed. Contact your network supervisor for access to this utility.

To install this utility, access a Novell server through AppleTalk* or a remote connection, locate the folder where Novell Client for Macintosh is located, and then drag the folder icon to a folder on your Macintosh.

After transferring the files, click the Novell Client for Macintosh Installer icon. The utility installs automatically and is available the next time you start your Macintosh.

Before Connecting

Before you make a call using Apple Remote Access, complete the following steps.

1. **Install the Apple Remote Access software.**
2. **(Conditional) If necessary, connect a modem to your Macintosh.**
3. **Indicate your modem setup in the Remote Access Setup control panel.**
4. **Verify that the remote users are authorized users on the network.**
5. **Specify the telephone number.**

Establishing a Connection

To dial in to a Novell Internet Access Server 4.1 server (formerly known as the NetWare[®] Connect[™] server) using the Apple Remote Access, complete the following steps.

- 1. Double-click the Apple Remote Access icon to open the program.**

A new untitled connection window appears.

- 2. Enter your username on the server.**

Make sure that you enter the full NDS[™] (Novell Directory Services[™]) context for your username. For example, if your username is admin and your context is novell, enter **admin.novell**.

- 3. If you are prompted for a remote access password, enter your remote access password.**

If you have Apple Remote Access 2.0 and the server is configured to allow the use of a password stored on disk, then you can use the Save My Password option to store your remote access password on disk so that you do not have to enter it each time that you connect.

If the server is configured to allow remote users to change their passwords, then you can change your remote access password. For more information, refer to “Setting the Remote Access Password” on page 16

- 4. Enter the telephone number of the communications port.**

- 5. (Conditional) If you want Apple Remote Access to remind you periodically of your connection, do the following:**

- 5a. Click Options.**

- 5b. Select one of the options in the Connection Reminder box.**

- 5c. If you select Display Alert Every, type a number between 1 and 9999 to tell Apple Remote Access how often, in minutes, to remind you of the connection.**

- 5d. Click OK.**

- 6. Click Connect.**

Apple Remote Access initializes the modem and starts dialing.

Once you establish a connection, the status window appears.

If the remote caller is configured for security dialback, then Apple Remote Access sets itself for autoanswer mode and waits for the communications server to call back.

Logging In to the Network

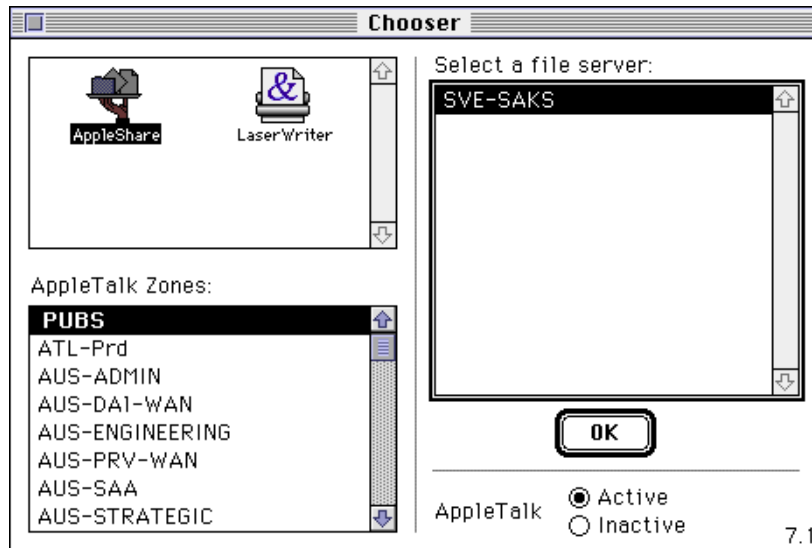
Once you have established a connection, you must log in to the network to use any of its resources.

- 1. Log in to a Novell Internet Access Server 4.1 server and do the following:**
 - 1a. Open the Macintosh Control Panels folder and double-click the MacIPX icon.**
 - 1b. Click the AppleTalk icon.**

A list of possible AppleTalk zones and IPXTM gateways appears.
 - 1c. Select an IPX gateway that has a LAN connection to the server that you will access.**
 - 1d. Exit MacIPX and close the Control Panels folder.**
- 2. Select the AppleShare* icon in the Chooser window.**

A list of available AppleTalk zones appears, as shown in Figure 2-1 .

Figure 2-1
AppleTalk Zones and Remote Access Servers



3. Select the AppleTalk zone that your remote access server belongs to.
4. Select your remote access server and click **OK**.
5. Log in to the remote access server by specifying your username and password.

You are prompted to specify an access method.

6. Do one of the following:
 - If you are logging in to a server that has NDS (Novell Directory Services) installed, select Encrypted NetWare Authentication.
 - If you are not logging in to a server that has NDS installed, select Apple Standard UAMS.

You are now logged in to the server.

Note

Before disconnecting from your Apple Remote Access session, make sure that you log out of Novell Directory Services.

Setting the Remote Access Password

To provide additional security for the Novell Internet Access Server 4.1 server, the network supervisor can require users to enter another password for the server, in addition to the network password.

Novell recommends that the network supervisor initially configure a remote access password for you and instruct you on how to use that password.

Once you establish a connection, you can change the remote access password, if the server is configured to allow remote users to change the remote access password. You can change the remote access password in two ways:

- If you are using Apple Remote Access 2.0, you can use the Apple Remote Access program to change the remote access password.
- If you are using AppleTalk Remote Access 1.0, you can use the Set Remote Access Password utility provided with the Novell Internet Access Server 4.1 server.

If you are using a Macintosh computer that has a network connection to the server, you must have the MacIPX utility and its associated LAN drivers software installed. MacIPX and its LAN drivers can be installed during Mac2NCS installation. For instructions on installing Mac2NCS, see “Installing Mac2NCS” on page 21

To run the Set Remote Access Password utility through a modem connection to a server, the following software must be installed on the remote Macintosh:

- MacIPX
- the MacIPX AppleTalk driver
- Novell Client for Macintosh (if you will connect to a Novell Internet Access Server 4.1 server)

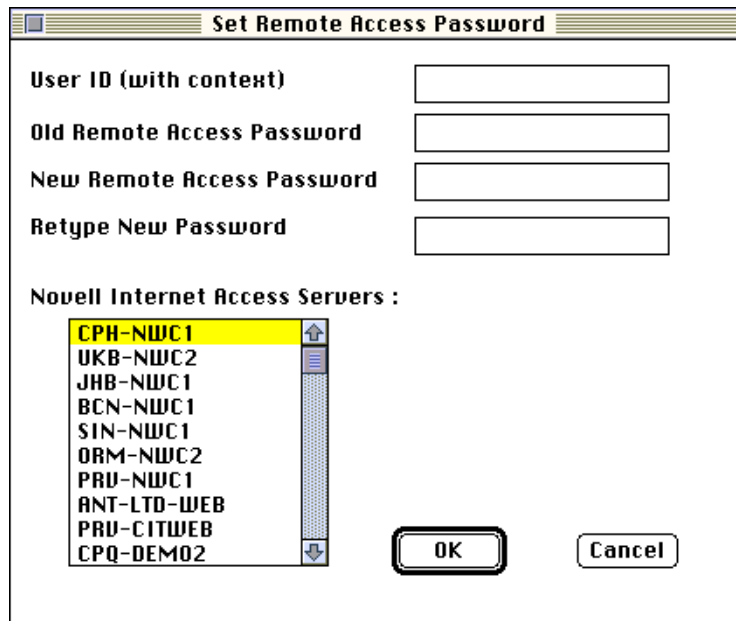
To run the Set Remote Access Password utility, complete the following steps.

- 1. (Conditional) If you are running the Set Remote Password utility through a modem connection to a server, do the following:**
 - 1a. Double-click the MacIPX icon in the Macintosh Control Panels folder.**

- 1b. **Click the AppleTalk icon.**
A list of AppleTalk zones and possible IPX gateways appears.
- 1c. **Select an IPX gateway that has a LAN connection to the server that you will access.**
- 1d. **Exit MacIPX and close the Control Panels folder.**
2. **Open the folder where the Set Remote Access Password utility is installed.**
3. **Double-click the Set Remote Access Password icon.**

The Set Remote Access Password window appears, as shown in Figure 2-2 .

Figure 2-2
Set Remote Access Password Window



4. **In the User ID field, type your username.**
5. **Enter your current remote access password in the Old Remote Access Password field.**
6. **Enter a new password in the New Remote Access Password field.**

7. Retype the new password in the Retype New Password field.

8. Click OK.

The utility displays a message informing you that your remote access password has been changed.

You can now use the new remote access password to access the remote access software through Apple Remote Access.

Saving Memory after Connecting

To utilize memory to run other applications on the network, you can close the Apple Remote Access program but still remain connected.

From the File menu, select Quit to close Apple Remote Access. A dialog box appears reminding you of your connection. Click Stay Connected and Quit. Quitting the program has no effect on the connection.

To disconnect from the network, you need to reopen the program.

Disconnecting from the Network

Once you establish a connection, there are three ways to disconnect:

- From the Remote Access Windows menu, select Status and then click Disconnect.
- Quit the Apple Remote Access program while you are connected. When a dialog box appears to remind you of your connection, click Disconnect and Quit. This method frees up memory for your computer to use for other processing.
- Shut down your Macintosh while it is connected. The connection is automatically broken.

We recommend that you use the first method to disconnect from the network. Whatever method you choose, the following message is displayed:

The file server's connection has unexpectedly closed down.

This message does not necessarily mean that the communications server is having problems.



Chapter

3 *Using Mac2NCS to Dial In to and Dial Out of the Network*

This chapter describes how to use the Mac2NCS software and a third-party communications application to dial out from the network and access a bulletin board, host computer, or other resource—or to dial in and remotely control a dedicated LAN workstation.

Mac2NCS is a redirector program that redirects the COM port I/O for Macintosh communications applications to a NASI port on a Novell[®] Internet Access Server 4.1 server (formerly NetWare[®] Connect[™] server).

Installing and Using Mac2NCS

The Mac2NCS component of the remote access software allows you to redirect the input from Macintosh communications applications to NASI ports on a server. You can use Mac2NCS connections for both dialing out from and in to the network.

To dial out using Mac2NCS, you need to install Mac2NCS and a Macintosh communications application which uses the standard serial driver interface on a LAN workstation. To dial in using Mac2NCS, you need to set up a Macintosh workstation on the network and install a supported third-party application on both the workstation and the remote PC.

Installing Mac2NCS

1. **Locate the Remote Access Mac Client folder.**

This folder might be on a diskette or a folder on a server.

- If the folder is on a server, open the Chooser, click AppleShare, and then locate a server that contains the NetWare Connect MAC Client folder. Log in to the server.

- If the folder is on a diskette, insert the diskette into a diskette drive on the Macintosh and then double-click the disk icon.

2. Double-click the Installer icon.

An informational screen appears. This screen contains basic instructions for installing Mac2NCS.

3. Click Continue.

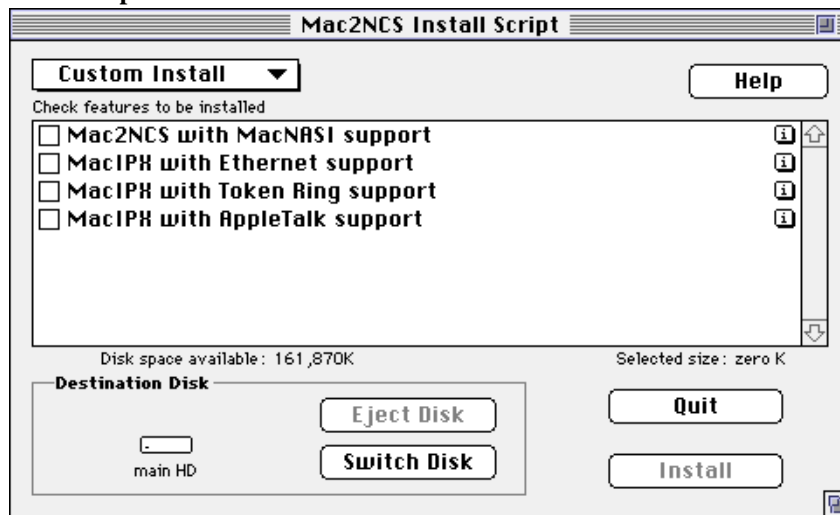
The Mac2NCS Install Script window appears.

4. Do one of the following:

- If you want to install all of the Mac2NCS options, click Install. Mac2NCS installs automatically.
- If you need to install only some of the options listed on the Install Script window, pull down the Install menu at the upper-left corner of the window and click Custom Install.

The Custom Install options appear, as shown in Figure 3-1 .

Figure 3-1
Mac2NCS Install Script Window



- 5. (Conditional) If you selected Custom Install, check Mac2NCS with MacNASI Support, check the other features that you want to install, and then click Install.**

For example, if you have an Ethernet network, you need to install MacIPX[®] with Ethernet support (if it isn't already installed), but you do not need to install MacIPX with token-ring support.

6. **Click Install.**
7. **Select Restart.**

Installing IPXNetStat

Novell recommends that you also install the IPXNetStat diagnostic utility, if it is not already installed on the Macintosh.

To install IPXNetStat, complete the following steps.

1. **Locate the Remote Access Services Mac Client folder.**

This folder might be a diskette or a folder on a server.

- If the folder is on a server, open up the Chooser, click AppleShare, and then locate a server that contains the NetWare Connect MAC Client folder. Log in to the server.
- If the folder is on a diskette, insert the diskette into a diskette drive on the Macintosh and then double-click the diskette icon.

2. **Open the NetWare Connect MAC Client folder.**

3. **Open the Mac2NCS folder.**

4. **Drag the IPXNetStat icon from the Mac2NCS folder to the System folder of your boot drive.**

The IPXNetStat icon appears in the Apple Menu.

Configuring Mac2NCS

After you have installed Mac2NCS and restarted the Macintosh, you can configure Mac2NCS.

Hint

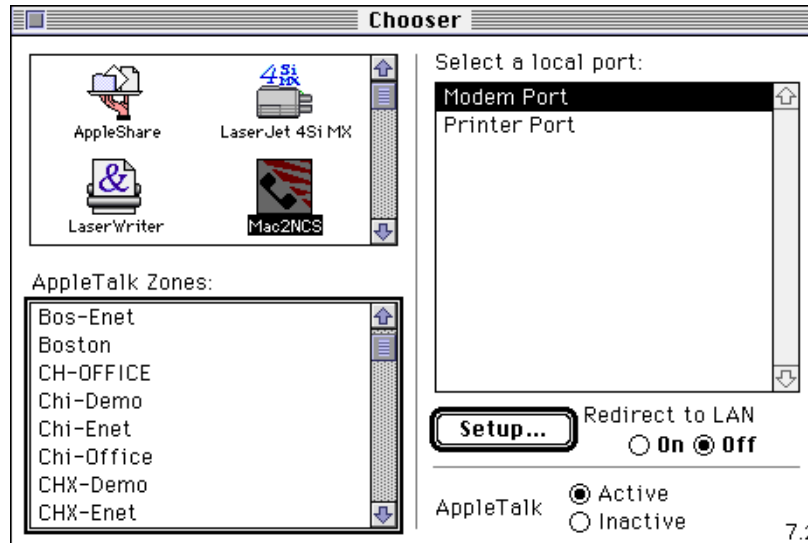
If you need additional help configuring Mac2NCS, you can activate the Apple balloon help system by clicking the balloon icon in the upper-right corner of your screen.

To configure Mac2NCS, complete the following steps.

1. **From the Apple menu, select the Chooser.**
2. **Find and click the Mac2NCS icon.**

The Chooser window appears, as shown in Figure 3-2 .

Figure 3-2
Mac2NCS Chooser Window



The modem and printer ports are displayed in the right portion of the window.

3. **Select the local port that will be used for redirection (Modem Port or Printer Port).**

If the application that you will use is enabled for the Communications Tool Box, Steps 3 and 4 are not necessary. Proceed to Step 5. If you are unsure that the application that you will use is enabled for the Communications Tool Box, proceed with Steps 3 and 4.

Once a port is chosen for redirection, the port is not available to a physical device such as a printer or modem. Applications that are enabled for the Communications Tool Box allow you retain the physical port while using a virtual serial device for Mac2NCS.

4. **Click On to enable redirection.**

5. Click Setup.

The Login Information window appears, as shown in Figure 3-3 .

Figure 3-3
Login Information Window

The screenshot shows a dialog box titled "Remote Access: Login". At the top, it says "Last Port Chosen" followed by a table with columns "Server", "General Name", and "Specific Name". Below this is a section titled "Login Information". Under "Server(s) to select", there is a list box containing: SJF-NWC1, UKB-NWC2, CPQ-DEMO, JHB-NWC1, ORM-NWC1, PRU-NWC1 (highlighted in yellow), and SWE-NWC. To the right of the list box are three input fields: "User ID" containing "jsmith", "Context" (empty), and "Password" (masked with dots). At the bottom of the dialog are three buttons: "Continue", "Cancel", and "OK".

The Server(s) to Select window shows the available servers. The Last Port Chosen field shows the server name, general name, and specific name for the last NASI port that was chosen.

6. Specify server login information as indicated in Table 3-1 .

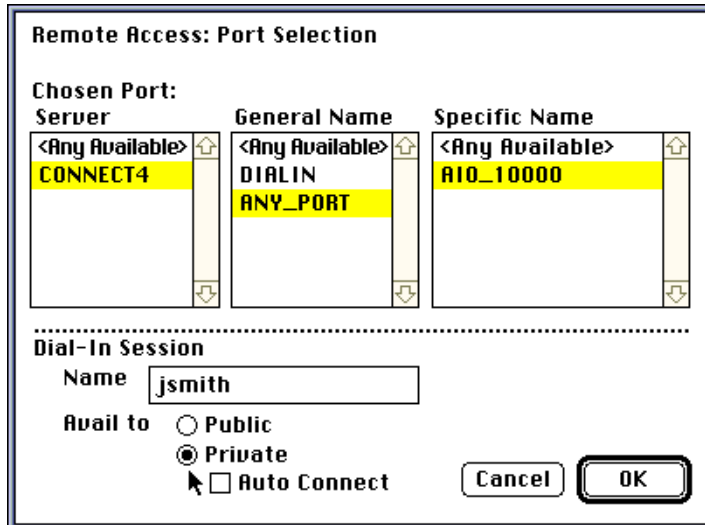
Table 3-1 Remote Access Login Information

Option	Description
Server(s) to Select	Select list to select the server that you want Mac2NCS to search for NASI ports. If you do not select any servers, then all available servers will be searched for NASI ports. This might take quite some time if you have access to several servers. Your selection of servers limits the servers whose ports you can access. Mac2NCS will locate ports only on servers that you have selected and can access using the user ID, context, and password that you use to log in.
User ID	In the User ID field, enter your NetWare user ID on the server where you want to use a port.
Context	If you are accessing a Novell® Internet Access Server 4.1 server, enter your NDS context for the server.
Password	Enter your server password for the user ID you specified in the User ID field.

7. Click Continue.

The Remote Access Port Selection window appears, as shown in Figure 3-4 .

**Figure 3-4
Remote Access Port Selection Window**



8. Specify port selection information as indicated in Table 3-2 .

You can select from one or more lists in any order. A General Name of <Any Available> is not recommended. If you intend to dial out but your call is routed to a port in a DIALIN group, then you will be unable to dial out. A selection other than <Any Available> from the Server or Group list might limit the choice of port. If the specific port you have selected is not available, you might be unable to use Mac2NCS temporarily.



Table 3-2Mac2NCS Port Selection Fields

Option	Description
Server	<p>Select the server on which to locate ports for redirection. If you want to search all available servers, select <Any Available>.</p> <p>The list of servers that appears is limited by the servers that you selected when you logged in using the Login Information window.</p>
General Name	<p>Select the Remote Access General Port name.</p> <p>If you will use the port to dial out, make sure that the port you select is <i>not</i> in the DIALIN group or the <Any Available> group.</p> <p>If you will use the port to allow a remote caller to dial in, the port can be either dial-in or dial-out. In this case, you might want to select the DIALIN General Name.</p>
Specific Name	<p>Select the specific port name of the port to use for redirection. If you want to use any port on the server or in the port group, select <Any Available>. If you will use the port to allow a remote caller to dial in, make sure that you select a port whose name ends in DIALIN.</p>
Dial-in Session Name	<p>If you will use Mac2NCS to place the Macintosh in host mode and wait for a call from a remote site, specify the username to be used to establish a session.</p>
Avail To	<p>If you want a dial-in session to be available to the specified user only, click the Private button. If you want the session to be available to all users, click the Public button.</p>
Auto Connect	<p>If you clicked the Private button and want the remote user to connect automatically without being presented with a menu of available sessions, check the Auto Connect check box.</p>

9. When you have finished making your selections, click OK to exit the Port Selection window.

10. Click OK to exit the Login Information window.

Configuring Mac2NCS to Allow Remote Users to Dial In to the Network

When you configure Mac2NCS to allow remote users to dial in to the network, you have the following two options:

- You can configure Mac2NCS so that remote users are presented with a list of sessions to choose from.
- You can configure Mac2NCS so that remote users access only one particular Macintosh session on the network.

Configuring Mac2NCS to Allow Remote Users to Select a Session

To configure Mac2NCS to allow dial-in users to select a session, complete the following steps:

1. Install Mac2NCS on a network workstation.

See “Installing Mac2NCS” on page 21

2. (Conditional) If the application that you will use is not enabled for the Communications Tool Box, configure Mac2NCS to redirect printer or modem port I/O to a port that belongs to the NCS DIALIN group.

3.

See “Configuring Mac2NCS” on page 23

4. In the Dial-in Session options on the NetWare Connect Port Selection window, configure the following fields.

4a. In the Name field, enter a session name.

This can be any text that you want. The text that you enter will be used to identify the session name to remote users.

4b. Select one of the following Avail To options:

- If you want the session to be available to all users, click the Public button.
- If you want the session to be available only to private users (users who specify the same login information as was entered on the Login Information window), click the Private button.

- If you want the session to be available to private users, and you do not want the server to prompt the users to select a session, check the Auto Connect box.

5. Set the communications software on the local Macintosh to host mode or call-waiting mode.

Make sure that you configure the software to use a direct connection and do not configure it to wait for a modem to answer a call.

6. Make sure that the remote component of the Macintosh communications package is installed.

When you configure Mac2NCS in this manner, remote users will be presented with a menu of sessions when they access the LAN. They can then select a session on a particular Macintosh.

Configuring Mac2NCS to Allow Remote Users to Select Only One Port

You can also configure Mac2NCS to allow remote users to access only one particular Macintosh.

Important

This configuration is not recommended because it consumes more resources, requires more knowledge of the server and modem setup, and might have a higher potential security risk. See your network supervisor before using this configuration.

To configure Mac2NCS to allow dial-in users access to only one Macintosh, complete the following steps.

1. Install Mac2NCS on a LAN workstation.

See “Installing Mac2NCS” on page 21

2. (Conditional) If the application that you will use is not enabled for the Communications Tool Box, configure Mac2NCS to redirect Printer or Modem port I/O to a port that is configured for either dial-out or both dial-in and dial-out.

3.

See “Configuring Mac2NCS” on page 23

4. Make sure that the port that users will use has a dedicated phone number associated with it.

5. **Set the communications software on the local Macintosh to host mode or to wait for a call to a modem.**

In order to do this, your host Macintosh software must know what type of modem will be used to answer the call.

6. **Make sure that the remote component of the Macintosh communications package is installed.**
7. **Provide remote users with the phone number for the port that will be directly connected to the host Macintosh.**

When you configure Mac2NCS in this manner, remote users will interact directly with the host computer.

Using Mac2NCS

You can use Mac2NCS to dial out from the network or to allow a remote user to dial in to your Macintosh while it is in host mode.

Using Mac2NCS to Dial Out from the Network

To use Mac2NCS to dial out, start a supported Macintosh communications application and dial out.

For example, use the Apple Internet Connection Kit to dial out to an ISP or use an America Online* client application to dial out to America On-Line services. You could also use Microphone II to dial out to another PC or Macintosh with a similar communications program. Refer to your application documentation for detailed information.

Hint

See the Mac2NCS README file for more specific information and troubleshooting tips.

Using Mac2NCS with Applications that Enable the Communications Tool Box

If you are using Mac2NCS with an application that enables the Macintosh Communications Tool Box, make sure that the Redirect to LAN option on the Mac2NCS Chooser Window is set to Off.

With this type of application, Mac2NCS can appear as a directly accessible serial port. By not redirecting the printer and modem ports, you can leave them free for other uses.

Using IPXNetStat to Troubleshoot

You can use the IPXNetStat program provided with Mac2NCS to troubleshoot problems with Mac2NCS.

To use IPXNetStat, complete the following steps.

1. Open the folder where IPXNetStat is installed.

If IPXNetStat was installed as an Apple menu item, go to the Apple menu and select IPXNetStat.

2. Double-click the IPXNetStat icon.

The IPXNetStat window appears.

3. Do one of the following:

- If you are querying NetWare Connect 1.0 servers, enter **394** in the Query Type field.
- If you are querying NetWare Connect 2.0 servers, enter **591** in the Query Type field.

4. Check the Query Type check box and then click Update.

IPXNetStat displays a report indicating how many servers your Macintosh can detect.

5. If no servers are available, click Update.

If you still do not see any servers in the list, check to make sure that MacIPX is configured correctly on your Macintosh. To do this, go to the Control Panels and click the MacIPX icon. Double-click the highlighted network interface selection and make sure that the correct frame type is selected. Also, check your physical connection to the LAN.

If none of these suggestions works, then contact your network supervisor.

Chapter

4 *Using Third-Party Dialers with Remote Access Services*

In addition to the Novell[®] dialers, you can use several third-party dialers to remotely access a server. However, the configuration for these dialers must be set correctly to achieve a remote access connection. This chapter provides instructions for three third-party dialers used on current operating systems:

- Windows 95 Dial-Up Networking
- Windows NT 3.51 Remote Access Services
- Windows NT 4.0 Dial-Up Networking

Using the Windows 95 Dial-Up Networking Dialer

Setting Up the Windows 95 Dial-Up Networking Dialer

1. **Make sure the Windows 95 Dial-Up Networking dialer is installed and your modems are configured.**

If you have not previously done this, refer to your Windows documentation for installation and configuration instructions. Once installation and configuration are complete, the Dial-Up Networking folder will appear.

2. **Double-click the Dial-Up Networking folder.**
3. **Double-click Make New Connection.**
4. **Follow the on-screen instructions to configure your connection.**

You will be prompted to enter a name and phone number for this connection.

5. **Click Finish when you have entered the appropriate information.**

A new connection icon with the information you entered now appears in the Dial-Up Networking folder.

- 6. Right-click the icon and then click Properties from the menu.**
- 7. Click Server Type to configure the correct protocols for remote access services.**
- 8. Uncheck Require Encrypted Password.**
- 9. Uncheck NetBEUI.**
- 10. Do one of the following:**
 - If you are using IPXTM, check Log On to the Network.
 - If you are using TCP/IP only, uncheck Log On to the Network.

Note

It might be necessary to set the TCP/IP settings. See your network supervisor for details.

- 11. Click OK to close the Server Type window.**
- 12. Click OK to save the changes made to your connection setup.**

You are now ready to dial in to the server.

Dialing In to the Server Using the Windows 95 Dial-Up Networking Dialer

Windows 95 Dial-Up Networking dials in to the server and establishes a remote node connection.

- 1. In the Dial-Up Networking folder, double-click the icon for the connection to the server.**

For information on setting up the connection information, see “Setting Up the Windows 95 Dial-Up Networking Dialer” on page 33

- 2. Enter your network user ID including the context.**
- 3. Enter your remote access password.**

Note

Your remote user password might be different from your network login password. See your network supervisor for more information.

4. Click Connect to dial.

Using the Windows NT 3.51 Remote Access Services Dialer

Setting Up the Windows NT 3.51 Remote Access Services Dialer

1. Make sure the Windows NT 3.51 Remote Access Services dialer is installed and your modems are configured.

If you have not previously done this, refer to your Windows NT documentation for installation and configuration instructions.

2. Double-click Remote Access Services on the Desktop.
3. Double-click Remote Access.
4. Click Add.
5. Enter the name, phone number, and a description (optional) for this connection.
6. (Conditional) If your remote username or password is different from your NT username or password, uncheck Authenticate Using Current Username and Password.
7. Click Advanced.
8. Click the port that your modem is connected to.
9. (Optional) Click Modem to set software compression.
10. (Optional) Check Enable software compression, and then click OK.
11. Click Network.
12. Uncheck NetBEUI.
13. Uncheck Request LCP Extensions.
14. Click PPP.
15. Check the desired protocols (IPX, IP, or both).

Note

It might be necessary to set the TCP/IP settings. See your network supervisor for details.

16. **Click OK to save the configuration settings.**
17. **Click OK again.**

Dialing In to the Server Using the Windows NT 3.51 Remote Access Services Dialer

Windows NT 3.51 Remote Access Services dials in to the server and establishes a remote node connection.

1. **Double-click Remote Access Services on the Desktop.**
2. **Double-click Remote Access.**
3. **Select the phone book entry you want to use, and then click Dial.**
4. **Enter your remote access username and password.**

Note

Your remote user password might be different from your network login password. See your network supervisor for more information.

It is not required that you enter a domain.

5. **Click OK.**

Using the Windows NT 4.0 Dial-Up Networking Dialer

Setting Up the Windows NT 4.0 Dial-Up Networking Dialer


1. **Make sure the Windows NT 4.0 Dial-Up Networking dialer is installed and your modems are configured.**

If you have not previously done this, refer to your Windows NT 4.0 documentation for installation and configuration instructions.

2. **Make sure that you have set the correct protocols and bindings for IPX/SPX™ and TCP/IP.**

See your network supervisor about these settings.

3. **Double-click Dial-Up Networking.**

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4. **Click New.**
 5. **Enter the name and phone number.**
 6. **Select the correct modem.**
 7. **Uncheck Use Another Port if Busy.**
 8. **Click the Server tab.**
 9. **Uncheck NetBEUI.**
 10. **Uncheck Enable PPP LCP Extensions.**
 11. **Select the desired protocols (IPX, IP, or both).**

Note

It might be necessary to set the TCP/IP settings. See your network supervisor for details.

12. **Click OK to save.**

This dial-up connection is now available from the phone book entry drop-down menu.

Dialing In to the Server Using the Windows NT 4.0 Dial-Up Networking Dialer

Windows NT 4.0 Dial-Up Networking dials in to the server and establishes a remote node connection.

1. **Double-click Dial-Up Networking on your Desktop.**
2. **Select the desired connection from the phone book entry drop-down menu.**
3. **Click Dial.**
4. **Enter your remote access username and password.**

Note

Your remote user password might be different from your network login password. See your network supervisor for more information.

It is not required that you enter a domain.

5. **Click OK.**

