## Add Name Space Notes

You need to add a name space to a volume only once by using the ADD NAME SPACE command.

Each time you mount a volume that you added a name space to (for example, each time you bring up the server), the corresponding name space module is automatically loaded.   Therefore, you don't need to put the ADD NAME SPACE command in the AUTOEXEC.NCF file.

## Adding TCP/IP Support

**IMPORTANT:**   You need access to the Windows** NT** files to successfully set up TCP/IP.

1.  Open **Control Panel**.
2.  Choose **Network**.
3.  Choose **Add Software**.
4.  Choose **TCP/IP Protocol and related components** from the **Network Software** list.
5.  Choose **Continue** and follow the onscreen instructions to select the components you want to install.
6.  Configure the TCP/IP protocol as necessary for your network.
7.  Choose **OK**.


\* Novell trademark.   \*\* Third-party trademark.   For more information, see Trademarks.

**Adding Long Filename Support**

In order to support long filenames, each IntranetWare*, NetWare* 4*, and NetWare 3* server needs to have the OS/2** name space loaded.   In addition, each volume needs to have the OS/2 name space added to it.

Each name space added to a volume requires additional server memory.   If you add name space support to a volume and do not have enough memory, that volume cannot be mounted.   For information about how to calculate the memory required for name space support, see *Supervising the Network*   (for NetWare 4*) or *System Administration*   (for NetWare 3*)

Each name space also uses up to 252 KB of disk space.

Once a name space is added to a volume, the name space can be removed from the volume only by deleting the volume and recreating it, or by using VREPAIR (see *Utilities Reference*).

The IntranetWare installation procedure places the OS2.NAM file (the OS/2 name space) in the SYS:SYSTEM directory.   On NetWare 4.11 and IntranetWare servers, this name space is called LONG.NAM.

* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

**To add a tree and context pair**

1. From the **Main** group, choose **Control Panel**.
2. Choose **Control Panel**.
3. Choose **Novell IntranetWare Client for Windows NT**.
4. Choose **Configure**.
5. Choose the **Add** button.
6. Enter a tree name in the **Enter Tree Name** field.
7. Type the context in the **Enter Default Context** field.
8. Choose **OK**.

The new tree and context pair appears in the list on the Client property page.

## Advanced Settings: Environment, NETX Compatibility Group

The **Environment, NETX Compatibility** group contains the following parameters:

Receive Broadcast Messages

DOS Name

Long Machine Type

Short Machine Type

**To access this parameter group**

1. Open the property pages.
2. Choose the **Advanced Settings** tab.
3. Choose the **Environment, NETX Compatibility** parameter group.

**Advanced Settings: List by Parameter Group**

The parameters that you can set in the property pages can be listed by the following parameter groups:

**Environment, NETX Compatibility** group

**Performance, Cache** group

**Packet Management** group

**WAN** group

**Advanced Settings: List by Parameter Name**

The **Advanced Settings** tab allows you to set the following parameters:

Receive Broadcast Messages
DOS Name
Large Internet Packets
Large Internet Packet Start Size
Long Machine Type
Link Support Layer Max Buffer Size
Minimum Time To Net
Opportunistic Locking
Burst Mode
Max Read Burst Size
Max Write Burst Size
Signature Level
Short Machine Type

**To access these parameters**

1. Open the property pages.
2. Choose the **Advanced Settings** tab.
3. Choose the **All** parameter group.

**Advanced Settings: Packet Management Group**

The **Packet Management** group contains the following parameters:

Link Support Layer Max Buffer Size

Burst Mode

Max Read Burst Size

Max Write Burst Size

Signature Level

**To access this parameter group**

1. Open the property pages.
2. Choose the **Advanced Settings** tab.
3. Choose the **Packet Management** parameter group.

**Advanced Settings: Performance, Cache Group**

The **Performance, Cache** group contains the following parameter:

Opportunistic Locking

**To access this parameter group**

1. Open the property pages.
2. Choose the **Advanced Settings** tab.
3. Choose the **Performance, Cache** parameter group.

**Advanced Settings: WAN Group**

The **WAN** group contains the following parameters:

Large Internet Packets

Large Internet Packet Start Size

Minimum Time To Net

**To access this parameter group**

1. Open the property pages.
2. Choose the **Advanced Settings** tab.
3. Choose the **WAN** parameter group.

**Auto detect configuration:**   Select this parameter if <u>DHCP</u> is configured to provide NetWare*/IP* parameters.

**Notes**

▪        You can change this setting by opening the **Network** control panel, choosing **Novell* NetWare/IP Adapter Driver**, and then choosing **Configure**.

▪        You cannot change this setting by using the Administrator Defaults.


* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

**Automatic Client Upgrade Contents**

**Automatic Client Upgrade Overview**

**Tasks for ACU**

## Automatic Client Upgrade Overview

### Introduction

Novell's Automatic Client Upgrade (ACU) provides a way to automatically upgrade Novell* IntranetWare* Client* for Windows** NT** software.   When SETUPNW.EXE is run with the /ACU option, ACU examines the workstation and determines whether the Novell client software is outdated. If it is, the latest version is automatically installed.

ACU uses version numbers to determine whether the client needs to be upgraded.   ACU compares the version number of the currently installed client with the number of the new client in the new install directory.   If the new client software version number is greater than the client version number, SETUPNW.EXE continues with the installation.   If the SETUPNW number is not greater, then SETUPNW exits without installing a new version of the software.

In addition to this version number, the NT Administrator can set a pair of internal version numbers in the UNATTEND.TXT file.   The internal version numbers make it so an NT Administrator can update the client installed in a particular organization if, for example, network changes make client configuration changes necessary even if the actual client version has not changed.

### Notes

The NT Administrator should consider the following points before using ACU:

■        The ACU procedure, like any other Novell IntranetWare Client for Windows NT installation procedure, requires that the person doing the installation have NT Administrator privileges on the workstation where the client software will be installed.

■        You can run SETUPNW /ACU from any login script or profile, provided that the proper drives are mapped and paths and filenames are specified using the UNC style (*drive*:\\*path*\\*filename*).

### See also

Using ACU


\* Novell trademark.   \*\* Third-party trademark.   For more information, see Trademarks.

**Bindery Connection check box**

When you choose **Log in to server**, the **Bindery connection** check box becomes available.   Check this check box if you want to log in to the server with Bindery Services rather than with Novell* Directory Services*.

* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

**Bitmap Filename option**

Use this option to specify the bitmap that appears on the welcome screen that appears when you start Windows**
NT**.   You can specify any bitmap that you want to use.   The bitmap must be located in the Windows NT directory.

**Default:** NWELCOME.BMP

You can also set the bitmap filename in the UNATTEND.TXT file.

* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

**Broadcast SAP nearest server queries to network:**   To have the NetWare*/IP* client find the Nearest IntranetWare Server by broadcasting the request on the local network, check this check box.   To have the NetWare/IP client find the Nearest IntranetWare Server by sending the request to a <u>NetWare/IP server</u> or <u>DSS</u>, uncheck this check box.

**Default:**   OFF (unchecked)

**Notes**

- Tells the NetWare/IP client which method to use to determine the Nearest IntranetWare Server.
- This is an optional setting for NetWare/IP.
- You can change this setting by using any of the following:

   The <u>UNATTEND.TXT</u> file

   The **Parameters** tab of **<u>NetWare/IP</u>** <u>configuration</u>


* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

**Burst Mode parameter**

The **Burst Mode** parameter controls the use of the Packet Burst* protocol for file input/output.   Generally, Packet Burst reduces overall network traffic and improves performance.

If you have a network board that has low performance and if your network performance is slow, you might try enabling Packet Burst.

**Values:** ON, OFF

**Default:** ON

**Advanced Parameter Group:** Packet Management

You can set this parameter by using either the property pages or the UNATTEND.TXT file.


* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

**Caption option**

Use this option to specify the text that appears in the header on the welcome screen that appears when you start Windows** NT**.   You can specify any text that you want to appear.

**Default:** Begin Login

**Example:** Hello Maria

You can also set the header text in the UNATTEND.TXT file.

* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

## Changing the LAN Driver for Your Network Adapter

1. (Conditional) If you have not already run the install program (SETUPNW.EXE), run it.

2. (Conditional) If the **Network** control panel is not displayed, open it.

3. Choose the network adapter that is installed.

4. Choose **Remove**.

5. Choose **Add adapter**.

6. Choose the adapter from the list.

7. Choose **Continue**.

8. Enter the information in the Configuration page.

9. Choose **OK**.

10. Enter any driver-specific information that you are prompted to enter.

**Notes**

▪ The new LAN driver is not used until after you restart your computer.

▪ If an ODI* LAN driver for your network adapter is already installed when you installed the client, that LAN driver is used unless you change it.


\* Novell trademark.   \*\* Third-party trademark.   For more information, see Trademarks.

## Checking for a Valid Network Connection

**To check for a valid network connection**

1. Open File Manager.

2. Choose the **Connect Network Drive** option from the **Disk** menu.

3. Check that the network services you expect to see appear in the dialog box.

## Choosing a Network Adapter Card Driver

If you have been using the Microsoft** client for NetWare* before installing the Novell* client, you have been using an NDIS** driver for your network adapter card.   You can continue to use this NDIS driver with the Novell client, or you can install a Novell ODI driver.

Consider these factors before changing your driver:

- There are a limited number of ODI drivers available for this release.   Check to see if an ODI driver is available for your adapter card before changing drivers.
- The IntranetWare client works automatically with an installed NDIS driver.   You do not need to install another driver or change your configuration.
- If you install an ODI driver and then uninstall the client, the ODI driver will be removed.   A new driver must be installed before you can establish a network connection.

Your Windows** NT** documentation explains how to choose a driver.

After installing an adapter card, you might need to <u>configure</u> it.


* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

**Clear current connections**

When you check the **Clear current connections** check box, any server connections that you've already made will be cleared when you log in.

You can also set this option from the UNATTEND.TXT file.

**Close script results automatically**

When the login routine runs, a box appears on the screen.   This box provides information about the processing of the login and the login scripts.   If you check the **Close script results automatically** check box, this box closes (unless errors occur during the login).

You can also set this option from the UNATTEND.TXT. file.

## Configurable Parameters on a Novell IntranetWare Client for Windows NT Workstation

You can control various components of the Novell* IntranetWare* Client* for Windows** NT** through the **Network Settings** dialog box.   (Access the **Network Settings** dialog box by choosing **Control Panel** from the **Main** group and then choosing **Network**.)

The documentation in this file describes only how to access each dialog box so you can change a particular parameter.   Select **Help** in each dialog box for information on the individual settings, such as minimum values, maximum values, and the effect of the parameter.

**To configure a parameter of the IntranetWare client**

Name Context, Preferred Tree, Preferred Server

Print Configuration

Packet Burst Mode, Retry Count

Network Adapter Card Settings

Token Ring Settings, Node Address Override, Slot Number


* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

## Configuring Novell IntranetWare Client for Windows NT

1. Open the **Network** control panel.

2. Choose **Novell IntranetWare Client for Windows NT**.

3. Choose **Configure**.

4. Ensure the following properties are set correctly.

▪ <u>First Network Drive</u>

Sets the first network drive to the drive letter of choice when you connect to an IntranetWare* server.

▪ <u>Preferred Server</u>

For a bindery connection to the network, specify the IntranetWare* server you want to attach to first.

▪ <u>Preferred Tree and Context pair</u>

For an NDS* connection to the network, specify the Directory tree that you want to connect to.

Also, specify the position, or context, in the Directory tree where your User object is located.   For example, to set your name context to the MNGT organizational unit in the MARKETING organization, enter

OU=MNGT.O=MARKETING

5. Choose **OK** to save any changes to the properties.

6. Choose **OK** to exit the **Network** control panel and save your changes.

Your changes take effect when you reboot your workstation.

### Notes

▪ For more information about configuring IntranetWare Client* for Windows** NT**, see the <u>configuration overview</u>.

\* Novell trademark.   \*\* Third-party trademark.   For more information, see <u>Trademarks</u>.

## Configuring NetWare/IP

1. Display the **Network** control panel.
2. Choose **Novell* NetWare*/IP* Adapter**.
3. Choose **Configure**.
4. Specify the **NetWare/IP Domain name**.
5. Specify any other settings as appropriate.
6. Choose **OK**.
7. Choose **OK**.

* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

## Configuring TCP/IP Support

1. Open **Control Panel**.
2. Choose **Network**.
3. Choose **TCP/IP Protocol**.
4. Choose **Configure**.
5. Make any necessary changes, as described in the Windows** NT** documentation.
6. Choose **OK**.
7. Choose **OK**.

NetWare*/IP* requires that DNS be configured either manually or via DHCP.

* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

## Novell IntranetWare Client for Windows NT Setup

### Overview

This help file explains how to install the Novell* IntranetWare* Client* for Windows** NT** software.   It also explains how to perform the basic configuration tasks that need to be completed so that you can log in to IntranetWare for the first time from your Windows NT workstation.

### Installing Novell IntranetWare Client for Windows NT

Features of the Install Utility

Preparing to Install Novell IntranetWare Client for Windows NT

Installing Novell IntranetWare Client for Windows NT

Installing NetWare/IP

Installing Remote Access Services

Installing Administration Utilities

### Configuring Novell IntranetWare Client for Windows NT

Configuring Novell IntranetWare Client for Windows NT

Setting Novell IntranetWare Client for Windows NT Properties

Setting NetWare/IP Properties

### Using Workstation Manager

Installing, Configuring, and Using Workstation Manager


* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

**To copy the Novell* IntranetWare* Client* for Windows** NT** software to a network directory**

1. Make a subdirectory named CLIENT\NT on a network drive.

   The subdirectory can be on either an IntranetWare server or a Windows NT server.

2. Copy the files from the Novell IntranetWare Client for Windows NT CD to the network directory.

   Do one of the following:

- Use the My Computer **Copy** option to copy the files from the CD to the network directory.
- From a DOS prompt, enter:
  XCOPY D: H:\PUBLIC\CLIENT\NT /S /E /C

  (assuming D: is your CD drive and H: is your network drive)

You can also set up your CD-ROM drive as a volume on your network.   This allows you to run the client installation programs directly from the CD-ROM.   Refer to your network documentation for instructions.


* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

## Creating an ACU Install Folder

In order for the Automatic Client Upgrade to work, the client needs access to a folder where all the installation files are stored.   To make this happen, the supervisor needs to do the following

1.  Create a folder for the Automatic Client Upgrade.

2.  Copy all Novell* IntranetWare* Client* for Windows** NT** installation files into the ACU install folder.

3.  Make sure that all clients scheduled for automatic upgrade have Read and File Scan rights to the ACU install folder.


* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

**Creating Installation Diskettes from CD-ROM**

1.  Gather eleven formatted diskettes.

2.  Insert the Novell* IntranetWare* Client* for Windows** NT** CD-ROM into your CD-ROM drive.

3.  Run MAKEDISK.BAT from the root directory of the CD-ROM.

4.  Insert and label the diskettes as prompted.

    Label the diskettes as follows:

    "Novell IntranetWare Client for Windows NT (I386) Disk 1"

    "Novell IntranetWare Client for Windows NT (I386) Disk 2"

    "Novell IntranetWare Client for Windows NT (I386) Disk 3"

    "Novell IntranetWare Client for Windows NT (I386) Disk 4"

    "Novell IntranetWare Client for Windows NT (I386) Disk 5"

    "NetWare ODI LAN Drivers Disk"

    "IntranetWare Client for Windows NT Utility Disk 1"

    "IntranetWare Client for Windows NT Utility Disk 2"

    "IntranetWare Client for Windows NT Utility Disk 3"

    "IntranetWare Client for Windows NT Utility Disk 4"

    "IntranetWare Client for Windows NT Utility Disk 5"

    "IntranetWare Client for Windows NT Utility Disk 6"

    "IntranetWare Client for Windows NT Utility Disk 7"

* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

**Custom configuration:** Select this parameter if <u>DHCP</u> is not configured to provide NetWare*/IP* parameters, or if you need to customize the NetWare/IP parameters for this workstation.

**Notes**

- You can change this setting by choosing **Novell* NetWare/IP Adapter** and then choosing **Configure**.
- You cannot change this setting by using Administrator Defaults.

\* Novell trademark.　　** Third-party trademark.　For more information, see <u>Trademarks</u>.

**Dynamic Host Configuration Protocol (DHCP)**

The rules by which an IP address can be assigned to a workstation when the workstation requests one.   The IP address is assigned to the workstation only temporarily.   The next time the workstation requests an IP address, it might or might not be assigned the same one.

For more information about DHCP, refer to the Microsoft documentation.

* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

**Domain Name Service (DNS)**

A standardized system that provides information about hostname and IP* address mapping throughout an internetwork.   DNS maintains this information in a decentralized distributed database.

**DOS Name parameter**

Sets the name of the operating system used in the shell.

**Default:** WINNT

**Example:** MSDOS

**Notes**

- This value can be 1 to 5 characters long.
- The %OS variable in the login or profile script uses this variable when mapping a search drive to the network DOS directory.
- Novell* IntranetWare* Client* for Windows** NT** automatically recognizes WINNT and sets this option. However, setting this option overrides the auto-detect feature.
- You can change this setting by using any of the following:

  Property pages

  UNATTEND.TXT

* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

**Domain SAP/RIP Server (DSS)**

A service on a NetWare*/IP* network that replaces IPX* broadcast services.   DSS servers maintain a database that provides NetWare/IP servers and clients with SAP/RIP information (service availability and routing) required by NetWare applications.

* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

**Description**

The **Description** box shows a brief explanation of the chosen parameter.

## Displaying NetWare/IP Properties

1. Display the **Network** control panel.
2. Choose **Adapter**.
3. Choose **Novell\* NetWare\*/IP\* Adapter**.
4. Choose **Configure**.

**Notes**

To display a property page (**Servers** or **Parameters**), click its corresponding tab.

\* Novell trademark.   \*\* Third-party trademark.   For more information, see <u>Trademarks</u>.

Choose the **Display Results** check box if you want a window to show you how the login is progressing while you log in.

**Enabling the Display Connection Page Option**

Choosing **Display Connection Page** causes the **Connection** tab to become visible in the **Login** window.   The **Connection** tab allows you to configure the same parameters that appear on the **Display connection page** from the **Login** window.

You can also enable this option from the UNATTEND.TXT file.

The **Display connection page** section of the **Login** properties page includes several options:

- **Log in to tree**
- **Log in to server**
- **Clear current connections**
- **Bindery connection**

**Enabling the Display Script Page Option**

Choosing **Display Script Page** causes the **Script** tab to become visible in the **Login** window.   The **Script** tab lets you configure the same parameters that appear on the **Display script page** from the **Login** window.

You can also set this option from the UNATTEND.TXT file.

The **Display script page** section of the **Login** properties page includes several options:

- **Login Script** field
- **Profile Script** field
-  **Display results window** check box
- **Close script results automatically** check box
- **Run scripts** check box

**Enabling the Display Variables Page Option**

Choosing **Display Variables Page** causes the **Variables** tab to become visible in the **Login** window.   The **Variables** tab allows you to configure the same parameters that appear on the **Display variables page** from the **Login** window.

You can define up to four <u>variables</u> to be used by the login scripts.   You or your network supervisor can set up your log in scripts to use these variables.

You can also set this option from the <u>UNATTEND.TXT</u> file.

**Login Script**

#\\LAHF\SYS\PUBLIC\CLIENT\ACU\SETUPNW.EXE /ACU /U

## Features of the Install Utility

**Features**

- Install or update Novell* IntranetWare* Client* for Windows** NT** software running on a Windows NT workstation
- Perform simultaneous unattended installations on multiple workstations across the network
- Configure client and configuration settings during installation by setting parameters in a text file used during unattended installation
- Install the client using a simple graphical interface
- Automatically upgrade the client so that it is installed when you log in
- Detect and replace Microsoft** NetWare client (the Microsoft and Novell clients cannot be installed on the same workstation)
- Install from diskette, hard disk, server volume, or CD-ROM
- Remove source routing (if enabled) when you install NetWare/IP*

\* Novell trademark.   \*\* Third-party trademark.   For more information, see Trademarks.

**First Network Drive parameter**

This parameter sets the first network drive to the drive letter of choice when you connect to an IntranetWare* server.

**Note:** The first network drive applies to any user logging in to the network using this workstation.

**To set or change the first network drive**

1. From the **Main** group, choose **Control Panel**.
2. Choose **Control Panel**.
3. Choose **Novell IntranetWare Client for Windows NT**.
4. Choose **Configure**.
5. Choose the letter of the first network drive from the pull-down list in the **First network drive** field.
6. Choose **OK**.

You can also set the First Network Drive in the UNATTEND.TXT file.

**Note:** Your change does not take effect until the next time you log in to IntranetWare.


* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

## Forcing an Upgrade

In some cases, a supervisor might update one or more files without upgrading the entire client.   For example, if Novell, Inc. releases a new version of a file with additional functionality, the supervisor might decide that all clients need to use this file.   Because this isn't a new version of the Novell* IntranetWare* Client*, there isn't a client revision number for ACU to check and the client will not be automatically upgraded.   In this case, the supervisor can force the clients to upgrade, using ACU, so that all clients use the newer file.

In the UNATTEND.TXT file used for unattended install (located in the I386\NLS\\*language* folder), there are two version parameter numbers:

- Major Internal Version
- Minor Internal Version

The version parameters can be any number from 0 to 4,294,967,295.   These version numbers are used to decide when the client upgrades.   To force the upgrade, the supervisor makes the version number higher than it is when UNATTEND.TXT is first opened; if the number is 0, make it a 1.   With this done, ACU compares the version numbers upon client login, finds the discrepancy, and upgrades the client to the system's newer files.


\* Novell trademark.   \*\* Third-party trademark.   For more information, see <u>Trademarks</u>.

## Upgrading from Microsoft Client Using ACU

If you are using the bindery-based Microsoft** Client for NetWare* Networks, SETUPNW.EXE must be run from the user's bindery login script (located in the SYS:MAIL directory) in order for the Automatic Client Upgrade to work. When using ACU with the Microsoft Client for NetWare Networks Service for Novell Directory Services*, SETUPNW.EXE must be placed in the login script that corresponds with the type of login (bindery or NDS*).

* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

## Installation Overview

After your workstations and servers are <u>prepared</u>, use one of the following methods to install the Novell*
IntranetWare* Client* for Windows** NT** software.

- ▪  <u>SETUPNW.EXE</u> utility provides easy installation

  This option is the best choice if you are installing Novell IntranetWare Client for Windows NT for the first time on
  one or more workstations, or if you want to upgrade a workstation.   SETUPNW.EXE provides an easy graphical
  interface for installation.

  To further simplify installation, especially if you are installing Novell IntranetWare Client for Windows NT on
  multiple workstations, you can set configuration options by using the <u>UNATTEND.TXT</u> file (if you run
  SETUPNW.EXE with the /U option).

  Use the unattended installation option to install and configure Novell IntranetWare Client for Windows NT without
  having to be present.   This feature saves a great deal of time, especially if you need to install the software on
  multiple workstations.

- ▪  Using the <u>Automatic Client Upgrade</u> feature

  This is a good method to use to automatically upgrade multiple workstations from the Client for NetWare
  Networks to Novell IntranetWare Client for Windows NT.

- ▪  Installing from the Windows NT **Network** <u>control panel</u>

  This method makes it possible to use the **Network** control panel to install Novell IntranetWare Client for Windows
  NT, as you would other services.

### See Also

<u>Start installation notes</u>

<u>Removing Novell IntranetWare Client for Windows NT</u>


\* Novell trademark.   \*\* Third-party trademark.   For more information, see <u>Trademarks</u>.

## Installing Administration Utilities

Novell* IntranetWare* Client* for Windows** NT** comes bundled with a pair of IntranetWare administration utilities, NetWare Administrator NT (NWADMNNT) and Workstation Manager.

The administration utilities require approximately 20 MB of hard disk space.

**To install the administration utilities**

1. Locate the **ADMSETUP.EXE** icon in the I386 directory of the Novell IntranetWare Client for Windows NT CD.

2. Double-click **ADMSETUP.EXE**.

3. Choose **Yes** to accept the Novell Terms and Conditions.

   If you choose **No**, you will not be able to install the administration utilities.

4. Choose **Continue** after reading the Administrator Utility title screen.

   If you choose **Cancel**, you will not be able to complete the installation.

5. Choose the utilities you want to install by checking the check box next to the utility's name.

6. Choose a server from the **To Server** list.

   You must have sufficient rights to write files to the server.   You should choose a server that you have the Supervisor right to.

7. Choose **OK**.

   A progress screen appears.   The progress screen has two progress bars.   The top bar shows which application is being installed. The bottom bar shows the percentage of files that have been installed.

   When the files are installed, the **Installation Complete** dialog box appears.

8. Choose **Run NW Admin** to start NetWare Administrator.

   OR

   Choose **Close** to exit the installer without starting NetWare Administrator.

**See Also**

Installing NetWare Administrator snap-ins


* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

**To install the DS Migrate and File Migrate snap-in modules**

In order to use the DS Migrate and File Migrate snap-ins, you must add two String Values to the following key in the registry.   To do this, follow these steps:

1.  Close NetWare Administrator.
2.  Run REGEDIT (in the WINNT subdirectory).
3.  Click on the following keys, in order, to expand the registry.

    HKEY_CURRENT_USER / Software / NetWare / Parameters / NetWare Administrator / Snapin Object DLLs WINNT

If any of the keys don't exist, create them by following this example:   the **NetWare Administrator** parameter exists in the Parameters section, but the **Snapin Object DLLs WINNT** parameter doesn't exist within the NetWare Administrator section.

1.  Highlight the NetWare Administrator section.
2.  Right click.
3.  Choose **New Key** from the popup menu.
4.  Enter the following:

    Snapin Object DLLs WINNT

5.  Choose **Snapin Object DLLs WINNT** to expand that section.
6.  Follow the steps under "String Values")

    **String Values**

    1> name: DSMGSNNT.DLL

        value: "DSMGSNNT.DLL"

    2> name: MIGSNPNT.DLL

        value: "MIGSNPNT.DLL"

7.  With the **Snapin Object DLLs WINNT** section highlighted, right click on that option.
8.  Choose New.
9.  Choose String Value.
10. Enter the name listed in 1> above.
11. Right click on that String name.
12. Choose Modify.
13. Enter the value listed in 1> above.
14. Repeat for 2> above.

Close REGEDIT before trying to run NetWare Administrator.


\* Novell trademark.   \*\* Third-party trademark.   For more information, see <u>Trademarks</u>.

**To install NDS Manager**

To set up NDS* Manager so that it can be accessed from the Tools menu in NetWare* Administrator, do the following:

1.  Launch the Windows NT NetWare Administrator (using no command line parameters)
2.  From the Options menu, choose **Save Settings on Exit**.
3.  Close the NetWare Administrator.
4.  Run REGEDT32.EXE (the Windows NT registry editor).
5.  Choose **HKEY_CURRENT_USER\Software\NetWare\Parameters\NetWare Administrator**.
6.  With **Snapin Object DLLs WINNT** highlighted, choose **Add Value** from the Edit menu.
7.  Type NMSNAPNT.DLL in the **Value Name** field.
8.  In the **Data Type** field, choose REG_MULTI_SZ from the pulldown menu.
9.  Choose **OK**.
10. Type NMSNAPNT.DLL in the **Data** field and choose **OK**.
11. Exit the Registry Editor.

The next time you launch NetWare Administrator, you should see NDS Manager as an option under the Tools menu.

**Running NetWare Administrator with the /N command line parameter**

If you are running NetWare Administrator with the /N command line parameter (which causes your preferences to be registered in your User object in the Directory), do the following:

1.  Open the NetWare Administrator for Windows NT.
2.  Choose the User object who will use NDS Manager.
3.  Right-click and choose **Details**.
4.  Choose the **NetWare Registry Editor** button.
5.  Under **Key**, choose **SNAPIN OBJECT DLLS WINNT**.

    **Note:** If there is nothing in the NetWare Registry Editor, add SNAPIN OBJECT DLLS WINNT by choosing the **Add** button under **Key**.
6.  Under **Values**, choose **Add**.
7.  In **Value Name**, enter NDSMGR.
8.  In **Value**, enter NMSNAPNT.DLL.
9.  Choose **String** as the type.
10. Choose **Add**.
11. Choose **OK**.
12. Exit the Registry Editor.

The next time you launch NetWare Administrator, you should see NDS Manager as an option under the Tools menu.

* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

## Installing NetWare Administrator Snap-ins

You can extend the NetWare Administrator utility by adding snap-in modules. When you add a snap-in module, the snap-in becomes a part of NetWare Administrator and can be accessed from the NetWare Administrator menus.

Novell* IntranetWare* Client* for Windows** NT** includes these snap-in modules:

DS Migrate

File Migrate

NDS Manager

\* Novell trademark.   \** Third-party trademark.   For more information, see Trademarks.

## Setting Up NetWare/IP

NetWare*/IP* allows workstations running Novell IntranetWare Client* for Windows** NT** to connect to the network using the TCP/IP protocol.   It provides a variety of TCP/IP <u>services</u>.

There are two methods you can use to install NetWare/IP:

▪         Preconfigure the <u>UNATTEND.TXT</u> file to install NetWare/IP when installing Novell IntranetWare Client for Windows NT

▪         Install NetWare/IP on a single workstation by using the Network control panel

**IMPORTANT:**   You need access to the Novell IntranetWare Client for Windows NT files to successfully set up NetWare/IP.

**See also**

   <u>To install NetWare/IP with the UNATTEND.TXT file</u>

   <u>To install NetWare/IP with the Network control panel</u>

**Notes**

▪         <u>NetWare/IP requires TCP/IP</u>.   If TCP/IP is not installed, you will be prompted to <u>install</u> it.

▪         NetWare/IP requires that the TCP/IP protocol stack be Transport Driver Interface (TDI)-compliant.

▪         It is possible to install NetWare/IP without TCP/IP because the NetWare/IP install will install TCP/IP for you. If you install this way, you should open the NetWare/IP property page and close it before restarting the workstation after installation.


* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

## Installing NetWare/IP during an Unattended Install

The UNATTEND.TXT file includes two options that allow you to install NetWare/IP* during an unattended install:

- Ask NetWareIP
- Install NetWareIP

These two options work together.

### The following scenarios are possible

1. AskNetWareIP=NO     InstallNetWareIP=NO

   Nothing happens. You are not asked whether you want to install NetWare/IP and NetWare/IP is not installed.

2. AskNetWareIP=NO     InstallNetWareIP=YES

   NetWare/IP is installed automatically without asking whether you want to install it.

3. AskNetWareIP=YES

   You are asked whether you want to install NetWare/IP.   You can choose YES to install or NO if you don't want to install. If you set AskNetWareIP to YES, it is not necessary to set the InstallNetWareIP parameter. You can, however, set the InstallNetWareIP parameter anyway to determine whether the YES or NO button is the default button on the prompt that appears.

4. AskNetWareIP=YES     InstallNetWareIP=YES

   The prompt that asks whether you want to install NetWare/IP displays with the YES button as the default.

5. AskNetWareIP=YES     InstallNetWareIP=NO

   The prompt that asks whether you want to install NetWare/IP displays with the NO button as the default.


* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

## Installing Remote Access Services

To install Remote Access Services (RAS):

1. Open the Control Panel.

2. Choose **Network**.

3. Select the **Add Software** option in the network settings.

4. Choose **Remote Access Service**.

5. Answer the questions for the components that are needed.

   This will set up a group for the Remote Access Services.

6. In the Novell* IntranetWare* Client* Services configuration, either specify the preferred server and tree where you want to initially log in, or specify under the **Login** tab the options you want to change upon login.

**See Also**

Starting Remote Access Services

* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

## Installing a Driver for the Network Adapter Card

If you have an ODI* driver that doesn't have a corresponding NDIS** driver, you must install a network adapter card driver.   If you've already installed a driver, but want to change it, you can do so.

Complete this procedure after installing the Novell IntranetWare* Client* for Windows** NT** software on the workstation.

**To install a network adapter card driver**

1. From the **Main** group, choose **Control Panel**.

2. From the **Control Panel**, choose **Network**.

3. From the **Network Settings** dialog box, choose **Add Adapter**.

4. Choose the type of network adapter card that is installed in the workstation and choose **Continue**.   To install an ODI driver, select an ODI driver. If the driver you want is not available, choose **Cancel**.

   If you chose a driver, you are prompted to enter the path to the place where the driver can be installed from.

5. Enter the path where the driver can be found and insert the disk or CD if necessary; then choose **Continue**.

6. Choose the settings for the network adapter card in the dialog box and then choose **OK**.

   Choose **Help** for more information on these settings.

7. Choose the frame type used on your network; then choose **OK**.   If you don't know the frame type, choose **AUTODETECT**.

   Choose **Help** for more information on this setting.

8. From the **Network Settings** dialog box, choose **OK**.

   You must restart the workstation for the Novell* IntranetWare Client for Windows NT software to become active.

   **Note:**   After installation, Novell IntranetWare Client for Windows NT components appear in the **Installed Network Software** and **Installed Adapter Cards** lists in the **Network Settings** dialog box where they can be configured.

**See Also**

Choosing a network adapter card driver

Removing a network adapter card driver


* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

## Installing from the Network Control Panel

Before installing the Novell* IntranetWare* Client* for Windows** NT**, make sure that your workstation meets the necessary <u>prerequisites</u>.

**To install the client software on the workstation**

1. Log in to the Windows NT workstation as an NT user who is a member of the Administrators group.

2. From the **Main** group, choose **Control Panel**.

3. From the Control Panel, choose **Network**.

4. From the **Network Settings** dialog box, choose **Add Software**.

5. Scroll to the bottom of the **Network Software** list box and choose **<Other> Requires disk from manufacturer**; then, choose **Continue**.

   You are prompted to enter the path to the location where the files can be found.

6. Enter the path and choose **OK**.

   For example, enter:

   D:\I386

7. From the **Select OEM Option** dialog box, choose **Novell IntranetWare Client for Windows NT** and choose **OK**.

The client software and driver are installed on the workstation.   After you install the client through the control panel, you must <u>configure</u> it.

If you have an ODI* driver that doesn't have a corresponding NDIS** driver, you must <u>install a driver</u> for the network adapter card.

If you want to use NetWare/IP*, you must <u>install</u> it.


\* Novell trademark.   \*\* Third-party trademark.   For more information, see <u>Trademarks</u>.

**Large Internet Packet Start Size parameter**

Determines the starting value for negotiating the Large Internet Packet (LIP) size.   Setting this value can reduce the initial negotiation time for packet size over slow links.

**Range:** 1 to 65535 bytes

**Default:** 65535

**Advanced Parameter Group:** WAN

You can also set this parameter from the UNATTEND.TXT file.

**Large Internet Packets Parameter**

Use the Large Internet Packets parameter to enable or disable Large Internet Packet (LIP) support.   When this parameter is enabled (ON), Novell* IntranetWare* Client* for Windows** NT** uses the maximum packet size negotiated between the IntranetWare server and the client workstation, even across routers and bridges. If the maximum packet size supported by the network is smaller than the negotiated packet size, the size supported by the network is used.

**Values:** ON, OFF

**Default:** ON

**Advanced Parameter Group:** WAN

You can also set this parameter from the UNATTEND.TXT file.


* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

**Link Support Layer Max Buffer Size:**   Specifies the maximum supported packet size in bytes.   Use this setting to optimize performance for media (primarily token ring) that can use packets that are larger than the default size.

**Default:**   4736

**Range:**   100 to 24682 (bytes)

**Notes**

▪        If your network board uses bus-mastering, increasing this setting increases system memory usage. Otherwise, system memory usage is usually unaffected by this setting.

▪        You can change this setting by using any of the following:

   The property pages

   UNATTEND.TXT

**Log in to server**

Lets you log in to an IntranetWare* server when you log in to the network.   This means that you can access files, applications, and other services available from that server.   If you choose to make a bindery connection, you cannot access other Directory Services objects that are not available on that server.

When you choose **Log in to server**, the **Bindery connection** check box becomes available.

You can also set this option from the UNATTEND.TXT file.

* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

**Log in to tree**

Lets you log in to an NDS* tree when you log in to the network. Choosing this option allows you to access services such as printers and servers that are available on that tree.

You can also set this option from the UNATTEND.TXT file.

* Novell trademark. ** Third-party trademark. For more information, see Trademarks.

**Login Script**

Sets the name of the login script that you want to use when logging in to IntranetWare*.

You can also set this option from the UNATTEND.TXT file.

* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

**Long Machine Type parameter**

Tells Novell* IntranetWare* Client* for Windows** NT** what type of machine is being used each time the %MACHINE variable is accessed.

**Default:**   IBM_PC

**Example:**   COMPAQ**

**Notes**

- Use this setting to set the machine's search path to the correct version of DOS.
- You can change this setting by using any of the following:

  Property pages

  UNATTEND.TXT


* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

**Max Read Burst Size parameter**

Specifies the maximum read burst size that the client can request from the server.

**Range:** 1 to 65536 (bytes)

**Default:** 36000

**Advanced Parameter Group:** Packet Management

You can also set this parameter from the UNATTEND.TXT file.

**Notes**

- Max Read Burst Size values smaller than the maximum packet size supported by the medium effectively disable Packet Burst* for file reads.
- The client will try to request a read burst of the maximum size only if network conditions allow it.

* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

**Max Write Burst Size parameter**

This parameter specifies the maximum write burst size that the client can request from the server.

**Range:** 1 to 65536 (bytes)

**Default:** 15000

**Advanced Parameter Group:** Packet Management

You can also set this parameter from the UNATTEND.TXT file.

**Notes**

- Max Write Burst Size values smaller than the maximum packet size supported by the medium effectively disable Packet Burst* for file writes.
- The client will try to request a write burst of the maximum size only if the network conditions allow it.
- Increasing this value beyond its default might be detrimental to server performance.

* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

**Minimum Time To Net parameter**

Used for bridged WAN/satellite links with time-to-net values set too low for workstations to make a connection under either of the following conditions:

- The server on the other side of the link is not running Packet Burst*
- The transfer rate for the link is 2400 baud or less

For 2400 baud, set this parameter to 10000 milliseconds.

**Range:** 0 to 65535 milliseconds

**Default:** 0

**Advanced Parameter Group:** WAN

You can also set this parameter from the UNATTEND.TXT file.

* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

## Modifying the Login Script

Depending on which login script is modified, the supervisor can allow different clients to upgrade.

- If the user login script is modified, only that user will automatically upgrade.
- If the container login script is modified, all clients in that container will automatically upgrade.
- If the profile login script is modified, all clients using that login script will automatically upgrade.

In order for the Automatic Client Upgrade to work, the supervisor needs to make sure that all clients accessing the Automatic Client Upgrade have Read and File Scan rights to the folder where the Novell* IntranetWare* Client* for Windows** NT** installation files are stored. With this done, the supervisor adds **#\\servername\volume\...\ setupnw.exe /acu /u** to the login script (where, after the volume name, all directories are separated by a backslash [\]).

Example

In addition to modifying the login script, the supervisor can modify the UNATTEND.TXT file. This allows the install utility to set the client's configuration options automatically. The following command installs Novell IntranetWare Client for Windows NT using both the ACU and Unattended options:

**setupnw.exe /acu /u**

* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

**NetWare/IP Support Prerequisites**

Before you can use NetWare*/IP* Support, you must have

- Microsoft's TCP/IP Services installed on your Windows** NT** workstation
  See your Windows NT documentation for instructions on installing TCP/IP.

- Access to a NetWare/IP server on the network

* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

## Setting the Name Context, Preferred Tree, and Preferred Server

You can control

- The preferred tree and name context for a Novell* Directory Services* connection
- The preferred server for a bindery services connection

These settings apply to the workstation, not to a specific user.   Users who log in using this workstation make their network connections using this name context, preferred tree, or preferred server.

**To change or specify a name context, preferred tree, or preferred server**

1. From the Control Panel, choose the **Network** icon.
2. From the **Installed Network Software** list, choose **Novell IntranetWare Client for Windows NT**; then choose **Configure**.
3. Choose the **Name Context**, a **Preferred Tree**, or a **Preferred Server** as needed.

    Choose **Help** for more information on each of these settings.
4. Choose **OK**.

These changes do not take effect until you restart the workstation.


* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

**Nearest NetWare/IP Servers:**   Specifies the nearest NetWare*/IP* servers.

**Default:**   None

**Notes**

▪        This setting is used as a guide for locating the Nearest NetWare/IP servers.   If the ones specified are not available, the DSS will provide others to use.

▪        This is an optional setting for NetWare/IP.

▪        You can specify up to 5 nearest NetWare/IP servers.

▪        Specify the NetWare/IP server names as DNS hostnames, fully qualified hostnames, IP addresses, or IP address masks.

    **Examples:**

| | |
|---|---|
| mydss | - hostname |
| mydss.atlantic.com | - fully qualified hostname |
| 222.33.44.55 | - IP address for mydss |
| 222.33.0.0 | - IP address mask for mydss |

▪        You can change this setting by using any of the following:

    The **Servers** tab of **NetWare/IP Configuration**

    The UNATTEND.TXT file


* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

**Nearest NetWare/IP Servers Add:**  After specifying the server, choose **Add** to add it to the list of **Nearest NetWare*/IP* Servers**.

* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

**Nearest NetWare/IP Servers Remove:**   After selecting the server, choose **Remove** to delete it from the list of **Nearest NetWare\*/IP\* Servers**.

* Novell trademark.   \*\* Third-party trademark.   For more information, see <u>Trademarks</u>.

**Nearest NetWare/IP Servers Replace:**   After selecting a server to replace and then specifying a replacement server from the list of **Nearest NetWare\*/IP\* Servers**, choose **Replace**.

* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

**NetWare/IP 1.1 compatibility:**   If your servers are running NetWare*/IP* 1.1 pre-patch, check this check box.

**Default:**   OFF

**Notes**

▪      This setting is used to support the first version of NetWare/IP servers and DSSs.   If your servers are running NetWare/IP 1.1 pre-patch, we recommended that you upgrade with the patch or to version 2.2.   In the interim, checking this box allows this (NetWare/IP 2.2-compliant) client to communicate with the NetWare/IP servers.

▪      You can change this setting by using any of the following:

The **Parameters** tab of **NetWare/IP Configuration**

The UNATTEND.TXT file

* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

**NetWare/IP Domain:**   Specifies the NetWare*/IP* domain that this client belongs to.

**NetWare/IP Domain Name:**   Specifies the <u>NetWare/IP Domain</u> that is configured for your area.

**Example:**   NWIP.ATLANTIC.COM

**Default:**   None

**Notes**

- This is a required setting for NetWare*/IP*.
- You can change this setting by using any of the following:

  The **Parameters** tab of **<u>NetWare/IP Configuration</u>**

  The <u>UNATTEND.TXT</u> file

* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

# NetWare/IP Properties

## NetWare/IP Parameters

### Required Parameters

There are no required parameters when you install NetWare*/IP* support if a DSS server is on the same subnetwork as the NetWare/IP client.   The client is automatically configured.

If there is no DSS server on the same subnetwork as the NetWare/IP client, at least one of the following local parameter values must be configured during installation:

■        NetWare/IP domain--Specifies the NetWare/IP domain that this client belongs to.   When the NetWare/IP domain is specified, DNS is used to locate any available DSS server on the network.

    DNS must be configured correctly in Microsoft's TCP/IP Services so that DSS servers can be located.

■        Preferred DSS--Specifies the IP addresses, or subnetwork IP addresses of up to five DSS servers that are closest to this client.

### Optional Parameters

The NetWare/IP client can use values for the following optional parameters to optimize performance:

■        Initial DSS contact retries--Specifies the number of times the client attempts to communicate with a given DSS server at startup.   The default is one retry, from a range of 0 to 50.

■        Retry interval--Specifies the time interval in seconds between attempts to retry communicating with a given DSS server at startup.   The default is 4 seconds, from a range of 1 to 100 seconds.

■        Nearest server--Specifies the IP address, or subnetwork IP address of the NetWare/IP server closest to this client.

■        NSQ broadcast--Specifies whether this client will use Nearest Server Query (NSQ) broadcasts to locate the nearest server.   By default, NSQ broadcast is set to ON.

### Global Parameters

In addition to the local parameters, the NetWare/IP client also obtains network-wide configuration information from the DSS, such as the virtual IPX* network number, UDP port numbers for NetWare/IP service, and DSS-NetWare/IP synchronization interval.


* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

**NetWare/IP server:**   An IntranetWare server which has the NetWare*/IP* NLM loaded on it.   It provides SAP and RIP information to the client by keeping synchronized copies of the DSS SAP/RIP information.   It can also be configured to route between NetWare/IP and IPX* networks.

* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

**Network Board Installation Notes**

- For information about installing the network board, refer to the board manufacturer's instructions.

- Novell* IntranetWare* Client* for Windows** NT** supports both the Open Data-Link Interface* (ODI*) and Network Drive Interface Specification** (NDIS**) drivers.

* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

## Configuring a Network Adapter Card on a Windows NT 3.51 Workstation

You can change the settings specified for the network adapter card.

**To change the network adapter card settings**

1. From the Control Panel, choose the **Network** icon.
2. From the **Installed Adapter Cards** list, choose the adapter card.
3. Choose **Configure**.
4. Change adapter card settings as desired.

   Choose **Help** for information on these settings.
5. Choose **OK** to save changes.

   Restart the workstation for the changes to take effect.

**Number of seconds between retries:**   Specifies the number of seconds to wait between retries of an unanswered DSS request.

**Default:**   10

**Range:**   5 to 99 (seconds)

**Notes**

- You can change this setting by using any of the following:

  The **Parameters** tab of **NetWare*/IP* Configuration**

  The UNATTEND.TXT file


\* Novell trademark.   \*\* Third-party trademark.   For more information, see Trademarks.

## ODINSUP Overview

The ODI* NDIS** support module (ODINSUP) is an Open Data-Link Interface* (ODI) protocol stack that interfaces between NDIS and ODI LAN drivers.

ODINSUP provides ODI support for NDIS protocols.   This enables you to use Microsoft** networking components with ODI LAN drivers.   For example, using ODINSUP allows you to use the Client for Microsoft Networks with an ODI driver.   Another example would be using ODINSUP to enable you to use the Microsoft TCP/IP protocol with an ODI driver.

* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

**Opportunistic Locking parameter**

Use this parameter to automatically detect opportunities to cache files.   ON offers increased performance.

**Values:** ON, OFF

**Default:** OFF

**Advanced Parameter Group:** Performance, Cache

You can also set this parameter from the UNATTEND.TXT file.

## Enabling Packet Burst Mode

You can control the performance of the workstation by turning Packet Burst* mode on or off.

**To turn on or turn off Packet Burst mode or to adjust retry count**

1. From the Control Panel, choose the **Network** icon.
2. Choose **Novell IntranetWare Client for Windows NT** from the **Installed Network Software** list.
3. Choose **Configure**.
4. Choose **Advanced Settings**.
5. Choose or unchoose **Burst Mode**, as desired.

   Choose **Help** for more information on this parameter.
6. Choose **OK**.


* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

## Parameters Tab

* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

**Path edit box**

The **Path** edit box becomes available when you choose the **Store Profile in an IntranetWare File System Directory** option in the **Advanced Login** property page.   Use this edit box to specify where the profile should be stored. For Windows** NT** 3.51 you must also specify the filename.

You can also specify the path in the UNATTEND.TXT file.


* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

**Preferred DSS:** Specifies the IP address or subnetwork IP address and DNS name of up to five DSS servers that are closest to this client.

If there is no DSS on your local subnetwork, you must enter your Preferred DSS or your <u>NetWare*/IP* Domain</u> in the **NetWare/IP Support configuration** window.

* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

**Preferred Domain SAP/RIP Servers:**   Specifies the Domain SAP/RIP Servers that you want to use as your preferred domain SAP/RIP servers.

**Default:** None

**Notes**

▪        The addresses and names are used as a guide for locating preferred domain SAP/RIP servers.   If none of the domain SAP/RIP servers is available, DNS will be queried for the **Domain SAP/RIP Server** list.

▪        This is an optional setting for NetWare*/IP*.

▪        You can specify up to 5 domain SAP/RIP servers that you consider preferred.

▪        Specify the domain SAP/RIP server names as hostnames, fully qualified hostnames, IP addresses, or IP address masks.

    **Examples:**

    dss                         - hostname

    dss.atlantic.com        - fully qualified hostname

    2.33.44.55               - IP address for mydss

    2.33.0.0                   - IP address mask for mydss

▪        You can change this setting by using any of the following:

    The **Servers** tab of **NetWare/IP Configuration**

    The UNATTEND.TXT file


* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks

**Preferred Domain SAP/RIP Servers Add:**   After specifying the server, choose **Add** to add it to the list of **Preferred Domain SAP/RIP Servers**.

**Preferred Domain SAP/RIP Servers Remove:**  After selecting the server, choose **Remove** to delete it from the list of **Preferred Domain SAP/RIP Servers**.

**Preferred Domain SAP/RIP Servers Replace:**   After selecting a server to replace and then specifying a replacement server from the list of **Preferred Domain SAP/RIP Servers**, choose **Replace**.

**Preferred Server**

This parameter specifies the preferred IntranetWare* server that NDS* should authenticate the user to when the Novell* IntranetWare Client* for Windows** NT** software is started. This setting causes Novell IntranetWare Client to attempt to create a connection to the specified server.

The Preferred Server and <u>Preferred Tree</u> parameters work together. If the Preferred Server parameter is set, NDS attempts to authenticate the user to that server.   If the Preferred Tree parameter is set, NDS sends a Get Nearest Server message and attempts to authenticate the user to the server that responds to the message, regardless of the Preferred Server setting.

**Note:** The preferred server applies to any user logging in to the network using this workstation.

**See also**

<u>To set or change the preferred server</u>


* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

**Preferred Tree**

This parameter specifies the Novell* Directory Services* tree you attach to first when you start the Novell* IntranetWare* Client* for Windows** NT** software. This setting causes the client software to attempt to create a connection to a server in the specified tree.

If the Preferred Tree parameter is set, the client attempts to connect to any server in that tree.   If there is no tree set, it attempts to connect to the configured <u>preferred server</u>.   If neither is set, then the client connects to any server that responds to the Get Nearest Server request from the client.

It is possible to use login scripts or profile scripts to specify multiple trees to log in to. The user can log in to as many trees as are designated for that user; however, there is always only one preferred tree.

**Note:** The preferred tree applies to any user logging in to the network using this workstation.   To log in to a different tree, you can change your tree for this login session when logging in to the network.

**See also**

<u>To set or change the preferred tree</u>


* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

## Preparing NetWare 3.11 Servers

**IMPORTANT:**  Each name space added to a volume requires additional server memory.   If you add name space support to a volume and do not have enough memory, that volume cannot be mounted.   For information about how to calculate the memory required for name space support, see *System Administration*.

**IMPORTANT:**   Once a name space is added to a volume, the name space can be removed from the volume only by deleting the volume and recreating it, or by using VREPAIR. (See *Utilities Reference.*)

1.  Load the OS/2** name space.

    At the server console prompt, enter

        LOAD OS2.NAM

2.  Add the OS/2 name space.

    At the server console prompt, enter

        ADD NAME SPACE OS2 TO VOLUME *volume_name*


* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

## Preparing NetWare 4 and IntranetWare Servers

**IMPORTANT:**   Each name space added to a volume requires additional server memory.   If you add name space support to a volume and do not have enough memory, that volume cannot be mounted.   For information about how to calculate the memory required for name space support, see *Supervising the Network*.

**IMPORTANT:**   Once a name space is added to a volume, the name space can be removed from the volume only by deleting the volume and recreating it, or by using VREPAIR. (See *Utilities Reference.*)

1.  Load the OS/2** name space.

    At the server console prompt, enter

    > LOAD OS2.NAM

    **Note:** On NetWare 4.11 and IntranetWare servers, this name space is called LONG.NAM.

2.  Add the OS/2 name space.

    At the server console prompt, enter

    > ADD NAME SPACE OS2 TO VOLUME *volume_name*


\* Novell trademark.   \*\* Third-party trademark.   For more information, see <u>Trademarks</u>.

## Preparing Client Workstations

Preparing client workstations for installing or upgrading the Novell* IntranetWare* Client* for Windows** NT** software requires hardware and software setup on each client workstation that you want to use on the network.

The complete setup for preparing workstations requires the following:

- Setting Up Workstation Hardware and Software
- Setting Up the Network Board

If you are upgrading form a previous version of the Novell IntranetWare Client for Windows** NT* software, your current workstation hardware and software configuration should be sufficient.

* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

# Preparing Servers

**Overview**

[Preparing Servers](#)

**Installing Patches and Long Filename Support**

[Prepare NetWare 4.1 and IntranetWare Servers](#)

[Prepare NetWare 3.11 Servers](#)

**Reference**

[Add Name Space Notes](#)

## Preparing to Install Novell IntranetWare Client for Windows NT

Before installing Novell* IntranetWare* Client* for Windows** NT**, make sure your workstations have sufficient hardware resources and the required software.

Follow the instructions to prepare your NetWare 4.1x, IntranetWare,or NetWare 3.11 servers.

The complete hardware and software setup for client workstations might require you to complete one or more of the following tasks:

Prepare client workstations

Choose installation method

Edit the preconfiguration file (UNATTEND.TXT) if necessary

Set up for installation from a network directory

Create client installation diskettes from CD-ROM


* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

## Configuring Print Services on a Windows NT 3.51 Client

From the Novell* IntranetWare* Client* for Windows** NT**, you can

- Capture a printer
- End the capture of a printer
- Control form feed, banner, and notification settings for a captured printer

**To capture a printer**

1. From the control panel, choose the **IntranetWare** icon.
2. From the **Port Assignment** list, choose the printer port.
3. From the **Available Queues** list, choose a print queue.

   Choose **Help** for more information on this setting.
4. Choose **Close**.

**To end the capture of a printer**

1. From the control panel, choose the **IntranetWare** icon.
2. From the **Available Queues** list, choose **None**.

   Choose **Help** for more information on this setting.
3. Choose **Close**.

**To change form feed, banner, and notification settings**

1. From the control panel, choose the **IntranetWare** icon.
2. In the **Print Configuration** box, make your changes (choose or unchoose the settings).

   Choose **Help** for more information on these settings.
3. Choose **Close**.


* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

**Profile Script**

Lets you set an alternate Novell* Directory Services* profile script to use when you log in.   This alternate profile script will be run instead of your normal NDS* profile script.

You can also set this option from the UNATTEND.TXT file.

* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

## Property Page: Advanced Login

This page lets you configure advanced login parameters for Novell* IntranetWare* Client* for Windows** NT**. Because these are advanced settings, they should be changed only by the network supervisor or another very experienced user.

The **Advanced Login** property page contains the following options:

- Policy Path and Filename

  This option is not available under Windows NT 3.51.

- Roaming Profile
- Store Profile in User Home/Mail Directory
- Store Profile in an IntranetWare File System Directory
- Path
- Welcome Screen
- Bitmap Filename
- Caption

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## Property Page: Advanced Settings

This page lets you configure advanced parameters for Novell* IntranetWare* Client* for Windows** NT**.   Because these are advanced settings, they should be changed only by the network supervisor or another very experienced user.

Use the **Parameter groups** pop-up to determine which parameters are listed on this property page.   The default parameter group is **All**, which lists all configurable settings.   Click on the arrow to choose a group that is a subset of **All**.   For example, you can choose **Packet Management** from the pop-up.   When you select a group, the parameters in that group appear in the list below the **Parameter group** pop-up.

Once you have selected a parameter group, click on a parameter from the list of parameters.   Then, use the **<u>Setting</u>** pop-up to change the setting for that parameter.   The **<u>Description</u>** box shows a brief explanation of the chosen parameter.

For information about the available properties, choose one of the following options:

<u>List by parameter name</u>

<u>List by parameter group</u>

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**Property Page: Client**

This property page tab allows you to configure the following settings:

First network drive

Preferred server

Preferred tree

Tree and name context pairs

## Property Page: Login

The **Login** property page tab allows you to configure the following settings:

Display connection page

Display script page

Display variables page

Display Results check box

Save settings when exiting Login

## Client Property Pages

Property pages allow you to set parameters from within a single utility.

**To access the property pages**

1. From the **Main** group, choose **Control Panel**.

2. Choose **Network**.

3. Choose **Novell IntranetWare Client for Windows NT**.

4. Choose **Configure**.

5. Set the property page settings as described in <u>Setting Novell* IntranetWare* Client* for Windows** NT** Properties</u>.

* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

**Receive Broadcast Messages parameter**

Tells Novell* IntranetWare* Client* for Windows** NT** which broadcast messages, if any, to receive..

**Default:**   All

**Example:**   Server Only

**Notes**

- You can choose one of the following settings
- All

    Receive all broadcast messages.

- Server Only

    Receive only broadcast messages sent by the server.

- None

    Do not receive any broadcast messages.

- You can change this setting by using any of the following:

    Property pages

    UNATTEND.TXT


* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

**To remove Novell\* IntranetWare\* Client\* for Windows\*\* NT\*\***

**Important:** If you remove Novell\* IntranetWare\* Client\* for Windows\*\* NT\*\*, you will not be able to connect to IntranetWare. To connect to IntranetWare you must first install an IntranetWare client.

1. Choose **Control Panel**.
2. Choose **Network**.
3. From the **Installed Network Software** list, choose **Novell IntranetWare Client for Windows NT**.
4. Choose **Remove**.
5. Restart your workstation after the client is removed.

\* Novell trademark.   \*\* Third-party trademark.   For more information, see <u>Trademarks</u>.

**To remove a tree and context pair**

1. From the **Main** group, choose **Control Panel**.
2. Choose **Network**.
3. Choose **Novell IntranetWare Client for Windows NT**.
4. Choose **Configure**.
5. Choose a tree and context pair from the list.
6. Choose **Remove**.

The tree and context pair is removed from the list.

# Requirements for a Novell IntranetWare Client for Windows NT Workstation

In order for you to install Novell* IntranetWare* Client* for Windows** NT**, your workstation and server must meet the following requirements:

**Workstation**

- Microsoft** Windows NT 3.51 or 4.0 installed on the workstation

  The workstation requirements for Windows NT can be found in the Windows NT documentation.   If your workstation does not meet the minimum requirements for Windows NT, you should not install Novell IntranetWare Client for Windows NT.

- 12 MB of RAM, 16 MB recommended
- A hard disk with 10 MB of free storage space for Novell IntranetWare Client for Windows NT

  This does not include the disk space requirements for Windows NT and any other software you might install on your workstation.

- A network board installed in your workstation

  For more information, see Network Board Installation Notes.

- A cable connection to the network

  Each type of network board requires unique cabling.   See the manufacturer's documentation packaged with your network board for requirements.

  Token ring network boards require a cable connection to the MAU before you can connect to the network after installing the Novell IntranetWare Client for Windows NT software.   Otherwise, the driver will not load.

**Server**

- NetWare 3.11 or later
- (Optional) If you want to support long filenames, one of the following name spaces should be loaded:
- NetWare 4.11 and IntranetWare: LONG.NAM
- NetWare 3.11 to NetWare 4.10: OS/2 name space

  **Note:** OS2OPNFX.NLM from 311PTD.EXE is required for long filenames on NetWare 3.11 servers. 311PTD.EXE is available on Novell's Electronic Services Worldwide.


* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

**Retries to DSS during startup:**   Specifies the number of times to retry an unanswered DSS request.

**Default:**   1

**Range:**   1 to 10 (retries)

**Notes**

- You can change this setting by using any of the following:
  The **Parameters** tab of **NetWare/IP Configuration**
  The UNATTEND.TXT file

**To enable the use of a roaming profile**

Check the **IntranetWare Storage of Roaming Profiles** check box on the **Advanced Login** property page.

When you check this check box, two options become available:

- Store Profile in User Home/Mail Directory
- Store Profile in an IntranetWare File System Directory

Choose one of these options to specify where the roaming profile is stored.

**Roaming Profile**

A single profile that can be used on multiple workstations is known as a "roaming profile."   The environment specified in the profile will be available on any and all workstations where the user logs in.

## Running SETUPNW.EXE

1.  (Conditional) If you are installing from diskette, insert the first disk.

    OR

    (Conditional) If you are installing from CD-ROM, insert the Novell* IntranetWare* Client* for Windows** NT** CD-ROM.

2.  (Conditional) If you are installing from a diskette in drive A:, run the installation program (SETUPNW.EXE) from that diskette.

    OR

    (Conditional) If you are not installing from a diskette in drive A:, run the SETUPNW.EXE program from the folder that has the Novell IntranetWare Client for Windows NT files, usually the I386 folder.


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**Run scripts**

If this check box is not checked, your log in scripts will not run when you log in.

You can also set this option from the UNATTEND.TXT file.

## Selecting a Network Adapter

1. Choose **Novell** or the manufacturer of your network adapter.

2. Choose the network adapter that matches your hardware.

   For example, choose **NE2000 Compatible** if you have an NE2000* or compatible network adapter.

3. Choose **OK**.

**Notes**

▪     There should be a matching Novell ODINSUP component for each ODI* LAN driver.   It is installed automatically.   For more information, see the ODINSUP Overview.

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## Servers Tab

**Nearest NetWare*/IP* Servers**

       **Add**

       **Remove**

       **Replace**

**Preferred Domain SAP/RIP Servers**

       **Add**

       **Remove**

       **Replace**

**Setting**

The **Setting** pop-up is where you choose or enter the setting for the parameter you choose in the **Parameters** list.

**Setting Novell IntranetWare Client for Windows NT Properties**

Novell* IntranetWare* Client* for Windows** NT** uses property pages to set many of the client's parameters.

The Property Page contains the following tabs:

Client

Login

Advanced Login

Advanced Settings

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## Setting Up for Installation from a Network Directory

### Prerequisites

Before you can install Novell* IntranetWare* Client* for Windows** NT** from a network directory, you must meet the following prerequisites:

■        An IntranetWare client (either the Microsoft** Client Service for NetWare or a previous version of Novell NetWare Client for Windows NT) must be running on the workstation.

■        You must be able to log in to an IntranetWare server from the workstation.

■        Either the IntranetWare server or a workstation connected to that server must be equipped with a CD-ROM drive.

### To install Novell IntranetWare Client for Windows NT from a network directory

Installing Novell IntranetWare Client for Windows NT from an IntranetWare server requires setup on an existing IntranetWare server and each client workstation you want to use on the network.

The complete network setup for the client installation requires you to complete the following tasks:

1.  Copy the Novell IntranetWare Client for Windows NT files to a network directory.

2.  Connect to the network drive containing the directory where you copied the files.

    From File Manager, do one of the following to connect to the network:

■        To log in to an IntranetWare server, follow the IntranetWare login procedure.

■        To logon to an NT network, use the **Connect Network Drive** option in File Manager, as explained in your Windows NT documentation.

3.  Edit preconfiguration file (UNATTEND.TXT)

4.  Install Novell IntranetWare Client for Windows NT.


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## Setting Up the Network Board

When you install a network board, it must be configured.   If the board is not properly configured, you will not be able to connect to the network.

In most cases, you should leave your network board set to the factory default settings.   If you need to change the default settings, see the manufacturer's documentation.

It is important that you keep a record of the settings you use to configure your network boards.   You will need to use this information when you set up Windows** NT**.

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**To set or change the name context for the current login session only**

1.  From File Manager, choose the **NetWare** menu.
2.  Choose **Change Context**.

**To set or change the tree and name context**

1.  From the **Main** group, choose **Control Panel**.
2.  Choose **Control Panel**.
3.  Choose **Novell IntranetWare Client for Windows NT**.
4.  Choose **Configure**.
5.  Enter the name of the tree and its name context.

    If trees and their name contexts have been entered previously, choose a tree from the tree list.

    When you specify a tree, the context for that tree is automatically chosen.
6.  Choose **OK**.

**To set or change the preferred tree**

1.  From the **Main** group, choose **Control Panel**.
2.  Choose **Network**.
3.  Choose **Novell IntranetWare Client for Windows NT**.
4.  Choose **Configure**.
5.  Type the name of the preferred tree in the **Preferred Tree** field.

    The name of the preferred tree can contain up to 32 characters.
6.  Choose **OK**.

You can also set this parameter from the UNATTEND.TXT file.

The change does not take effect until you reboot your workstation.

**Short Machine Type parameter**

Specifies which overlay files to use with the specific machine type of your client workstation..

**Default:**   IBM

**Example:**   AST

**Notes**

- This setting is similar to Long Machine Type, except that it is used specifically with overlay files.
- Use this setting when the %SMACHINE variable is accessed.
- The value for this setting can be up to four characters long.
- Examples of files using this setting and value include the IBM$RUN.OVL file for the windowing utilities and the CMPQ$RUN.OVL file that uses a default black-and-white color palette for IntranetWare* menus.
- You can change this setting by using any of the following:
  Property pages
  UNATTEND.TXT

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**Signature level parameter**

Determines the level of enhanced security support.   Increasing this value increases security, but decreases performance.

**Range:** 0 to 3

**Default:** 1

**Advanced Parameter Group:** Packet Management

The values are as follows:

0 = Disabled

1 = Enabled but not preferred

2 = Preferred

3 = Required

**Notes**

▪       Setting the value of this parameter to 2 or 3 increases security but decreases performance.

▪       Enhanced security includes the use of a message digest algorithm and a per connection/per request session state.

▪       You can change this setting by using any of the following:

   The **Advanced Settings** tab of **Novell* IntranetWare* Client* for Windows** NT** Properties**

   The UNATTEND.TXT file


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## Start Installation Notes

SETUPNW.EXE performs the following actions:

- Removes any existing IntranetWare* client software.   Specifically, removes the following IntranetWare client software, if found:

- [Microsoft**] Client for NetWare Networks

- [Microsoft] Service for Novell* Directory Services*

- Installs IntranetWare Client for Windows** NT**.

- The Novell IntranetWare Client for Windows NT files are copied to your hard disk.

- The folder for the Novell IntranetWare Client for Windows NT is WINNT\SYSTEM32\NETWARE on your workstation's Windows drive.   Some of the files are copied to this folder.   Other files are copied to the appropriate Windows NT folder, such as the \WINDOWS\SYSTEM32 and \WINDOWS\HELP folders.

- Updates the system registry with the information needed to start Novell IntranetWare Client for Windows NT automatically each time Windows NT starts.


\* Novell trademark.   \*\* Third-party trademark.   For more information, see <u>Trademarks</u>.

**To start Remote Access Services**

1. After logging in to the workstation, choose the **Remote Access** icon from the Remote Access Services group.

2. Specify the phone number for the RAS server.

3. Choose **Dial**.

4. After a connection has been established, log in and run the login script.

   Do this by going to the IntranetWare (Common) group and selecting **IntranetWare Login.** Then select **Login** to run the login script and log in to the tree or server.

**Store Profile in User Home/Mail Directory** button

This button is available only if the **IntranetWare Storage of Roaming Profile** check box is checked on the **Advanced Login** property page.

Choose the **Store Profile in User Home/Mail Directory** option to store the roaming profile on the network.   The user's Mail directory is used for bindery connections and the user's Home directory is used for NDS connections. The advantage of storing the user profile on the network is that it allows the user to utilize the same desktop environment on all workstations throughout the network.   Any changes made to the user environment on one workstation will be saved to the profile stored on the network.   The environment specified in the profile will be available on any and all workstations where the user subsequently logs in.

You can also set this option in the UNATTEND.TXT file.

**Store Profile in an IntranetWare File System Directory** button

This button is available only if the **Roaming Profile** check box is checked on the **Advanced Login** property page.

Choose the **Store Profile in an IntranetWare File System Directory** option to store the roaming profile in a directory on an IntranetWare* server.   The advantage of storing the user profile on the network is that it allows the user to utilize the same desktop environment on all workstations throughout the network.   Any changes made to the user environment on one workstation will be saved to the profile stored on the network.   The environment specified in the profile will be available on any and all workstations where the user subsequently logs in.

You can also set this option in the UNATTEND.TXT file.

When you choose the **Store Profile in an IntranetWare File System Directory** option, the **Path** edit box becomes available.


* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

## System Registry Configuration Notes

- Novell* IntranetWare* Client* for Windows** NT** uses the Windows system registry to store configuration properties.   It does not use the NET.CFG file.

- Unless otherwise directed, you should not edit the system registry.   An error in the system registry can sometimes disable a workstation.

- In most situations, you don't need to edit the system registry because configuration properties can be changed using property pages.

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**To install NetWare/IP with the Network control panel**

Install NetWare/IP from the Network control panel if you need to install NetWare/IP on only one workstation and do not wish to reinstall the entire Novell IntranetWare Client for Windows NT.

1. Open **Control Panel**.
2. Choose **Network**.
3. Choose **Add Software**.
4. Choose **Novell NetWare/IP Support (NWIP)** from the **Network Software** list.
5. Choose **Continue**.

   If TCP/IP is not yet installed, a message asks if you want to install it.   If you choose **No**, you cannot install NetWare/IP.   If you choose **Yes**, follow the instructions included with Windows NT for installing TCP/IP.
6. Configure NetWare/IP.
7. (Conditional) If TCP/IP isn't already configured, configure it.

**To install NetWare/IP with the UNATTEND.TXT file**

The UNATTEND.TXT preconfiguration file allows you to install NetWare/IP (as well as set other configuration parameters) automatically when you install Novell IntranetWare Client for Windows NT. This provides two major benefits:

■ Install NetWare/IP on one or more workstations when installing Novell IntranetWare Client for Windows NT for the first time

■ Install NetWare/IP on one or more workstations that were previously set up with Novell IntranetWare Client for Windows NT

You can install NetWare/IP on multiple workstations simultaneously without having to go to each individual workstation. This can save a tremendous amount of time and effort.

1. With a text editor, open the UNATTEND.TXT file.
2. Locate the AskNetWareIP and InstallNetWareIP parameters in the UNATTEND.TXT file.
3. Set the AskNetWareIP and InstallNetWareIP parameters.
4. (Optional) Change any other parameters that you want to set in the UNATTEND.TXT file.
5. Run SETUPNW.EXE with the /U option.

**To set or change the preferred server**

1. From the **Main** group, choose **Control Panel**.

2. Choose **Network**.

3. Choose **Novell IntranetWare Client for Windows NT**.

4. Choose **Configure**.

5. Type the name of the preferred server in the **Preferred Server** field.

   The name of the preferred server can contain up to 47 characters.

6. Choose **OK**.

You can also set this parameter from the UNATTEND.TXT file.

**Note:** The change takes effect when you reboot your workstation.


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## Configuring Token Ring Settings

Use this dialog box to set the Token Ring Bit and the Token Ring Snap Bit for token-ring networks, override the node address of the network adapter card, or specify the slot number of the adapter card for an EISA or MCA bus.

Refer to your Windows** NT** documentation for more instructions.


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**Tree and Name Context parameter pairs**

Specifies the location of each User object in the Directory tree for IntranetWare* users using Novell* Directory Services*.

This parameter pair does not apply if you are logging in to a NetWare 3* server or a NetWare 4 server using bindery services.

**Note:** The name context applies to any user logging in to a specified tree using this workstation. Because it is possible to log in to multiple trees, each tree has its own designated name context. You can change the tree and the name context when you log in. However, a user can have only one name context in any one tree.

**See Also**

Setting or changing the name context

Adding a tree and context pair

Removing a tree and context pair

Setting or changing the name context for the current login session only

**Note:** Any changes you make to this property page do not take effect until the next time you log in to IntranetWare.

You can also set the tree and name context in UNATTEND.TXT.

* Novell trademark. ** Third-party trademark. For more information, see Trademarks.

# UNATTEND.TXT Overview

## Overview

UNATTEND.TXT is the default preconfiguration file that Microsoft** supplies with Windows** NT** software.   Novell* IntranetWare* Client* for Windows NT software includes its own version of this file that you can use instead of the version from Microsoft.   The Novell version includes all of the options in the Microsoft version, but it also adds Novell IntranetWare Client parameters.   Set these parameters to configure the Novell IntranetWare Client during installation on one or more workstations.

By specifying default values for configuration settings in an UNATTEND.TXT file, you can simplify the installation of Novell IntranetWare Client for Windows NT.   This configuration method is good for network supervisors who are familiar with the Windows NT .INF file syntax, want to install and configure the Novell IntranetWare Client for Windows NT at the same time, and need to configure settings that can't be configured using the System Policy Editor.

The UNATTEND.TXT file that Novell supplies is a self-documenting file.   It contains information about each parameter, including the default value and the range of values, as well as an explanation of what each parameter does.   To change or set a parameter, read about the parameter in the UNATTEND.TXT file or in this Help file, and then set the parameter value.   If the parameter is commented out (has a semicolon at the beginning of the line), you will need to remove the semicolon to set the parameter.

## Where Is the UNATTEND.TXT File?

The UNATTEND.TXT file is located in the following directory on the installation CD:

*Novell IntranetWare Client for Windows NT installation disk*:\I386\system32\nls\\*language*

For example:

d:\I386\system32\nls\english

If you are installing from diskette, UNATTEND.TXT is on the first diskette, at the following path:

a:\nls\english

## Why Use an UNATTEND.TXT File?

The UNATTEND.TXT file allows you to configure the Novell IntranetWare Client for Windows NT settings during installation.   By installing from an IntranetWare server, you can configure multiple workstations simultaneously by using the same UNATTEND.TXT file.   The UNATTEND.TXT file uses NT INF file syntax.   However, you should be familiar with the settings that are supported by Novell IntranetWare Client for Windows NT.   Some parameters from previous IntranetWare clients are no longer supported, some parameters have changed, and there are some new parameters.

## UNATTEND.TXT Defaults Option

The UNATTEND.TXT file contains two sections:

- Installation options

  This section contains answers to the possible install process questions.   These parameters allow you to configure installation options and preconfigure answers to the dialog boxes that might pop up during an install.

  These parameters answer the questions asked during both an NT Unattended installation and a Novell IntranetWare Client for Windows NT SETUPNW.EXE installation so that the dialog boxes do not need to pop up. This is especially helpful if you are installing Novell IntranetWare Client for Windows NT on several workstations and don't want the users to be able to overwrite your configuration choices.

- Version Parameters

  In the installation options section of the UNATTEND.TXT file, there are two version parameters:

- Major Internal Version
- Minor Internal Version

  The version parameters can be any number from 0 through 4,294,967,295.   If this number is greater than the version number stored in the registry, the configuration settings in the UNATTEND.TXT file are written to the registry and this number is stored as the new version number.   Otherwise, they aren't.   The first time the Novell IntranetWare Client for Windows NT software is installed, no version number is in the registry.   In this case, the version numbers are written to the registry.   These internal version numbers are only written to the Registry when the client is installed using the SETUPNW /U command.

- Configuration parameters

  This section allows you to set all of the Novell IntranetWare Client for Windows NT parameters before you install the software.   When you install, the parameters in this section are automatically configured.

- Overwrite Parameter
  In the configuration parameters section of the UNATTEND.TXT file, each parameter has an overwrite option. If the overwrite option is set to YES, then the value is updated.   If it is NO, then the value is updated only if it does not already exist in the Registry.   All of the parameters on the Client and NetWare/IP* property pages are included in the UNATTEND.TXT file.

**Notes**

- For information about the configuration settings that you can specify in the UNATTEND.TXT file, see the specific help for each setting.

**See Also**

Performing an Unattended Install


\* Novell trademark.   \*\* Third-party trademark.   For more information, see Trademarks.

## UNATTEND.TXT Settings

You can use the UNATTEND.TXT file to set the following parameters in the [NovellNetWareClientParameters] section. The parameters are listed in the order in which they appear in the UNATTEND.TXT file.

### [SetupNWInstallOptions] Section

This section is used by the SETUPNW.EXE installation program. These parameters configure the dialog boxes presented during installation.

Display Initial Screen

Ask Reboot

Use NetWare GINA

### [NovellNetWareClient Parameters] Section

This section contains parameters used to configure the client. Nearly all of these parameters can also be set in the Control Panel. However, setting them in UNATTEND.TXT before installation makes it possible to configure multiple workstations with the same parameters during installation, eliminating the need to configure them on each individual workstation.

Major Internal Version

Minor Internal Version

Accept License Agreement

Remove Microsoft NetWare Client

Use NetWare GINA

Ask NetWareIP

Install NetWareIP

Preferred Server

Preferred Bindery Server

Tree and Name Context

First Network Drive

Display Connection Page

Login to Tree

Login to Server

Bindery Connections

Clear Current Connections

Display Script Page

Login Script

Profile Script

Display Results

Close Script Results Automatically

Run Scripts

Display Variables Page

Save Settings When Exiting Login

Policy Path

IntranetWare Storage of Roaming Profiles

Storage Type

File System Pointer Path

Bitmap Filename

Welcome Screen Caption

DOS Name

Large Internet Packets (LIP)

LIP Start Size

**UNATTEND.TXT Settings Information**

Use the following information when setting the <u>Auto Retries</u> parameter in the UNATTEND.TXT file:

**Parameter:** AutoRetries

    **Syntax:** !AutoRetries = *number*

**Overwrite parameter:** AutoRetries_OverWriteValue

    **Syntax:** !AutoRetries_OverWriteValue = yes|no

**Example:**

    !AutoRetries = 2

    !AutoRetries_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information when setting the Bindery Connections parameter in the UNATTEND.TXT file. The Bindery Connections parameter determines whether bindery connections are allowed.

**Parameter:** Bindery_Connections

    **Syntax:** !Bindery_Connections = yes|no

**Overwrite parameter:** Bindery_Connections_OverWriteValue

    **Syntax:** !Bindery_Connections_OverWriteValue = yes|no

**Example:**

    !Bindery_Connections = yes

    !Bindery_Connections_OverWriteValue = no

**UNATTEND.TXT Settings Information**

Use the following information when setting the <u>Bitmap Filename</u> parameter in the UNATTEND.TXT file. The bitmap must be located in the Windows NT directory.

**Parameter:** Bitmap_Filename

    **Syntax:** !Bitmap_Filename = *filename*

**Overwrite parameter:** Bitmap_Filename_OverWriteValue

    **Syntax:** !Bitmap_Filename_OverWriteValue = yes|no

**Example:**

    !Bitmap_Filename = c:\winnt\welcome.bmp

    !Bitmap_Filename_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information to set the <u>DOS Name</u> parameter from the UNATTEND.TXT file:

**Parameter:** DOS_Name

    **Syntax:** !DOS_Name = *name*

**Overwrite parameter:** DOS_Name_OverWriteValue

    **Syntax:** !DOS_Name_OverWriteValue = yes|no

**Example:**

    !DOS_Name = WINNT

    !DOS_Name_OverWriteValue = no

**UNATTEND.TXT Settings Information**

The Display Initial Screen parameter can be used to customize the installation process. Use the following information when setting the Display Initial Screen parameter in the UNATTEND.TXT file:

**Parameter:** DisplayInitialScreen

    **Syntax:** !DisplayInitialScreen = yes|no

**Example:**

    !DisplayInitialScreen = no

**Note**

If you set the parameter to YES, the initial ACU or Welcome screen displays to the user when the installation process begins.   If you set this parameter to NO, the installation starts without displaying that screen.

**UNATTEND.TXT Settings Information**

Use the following information when setting the Display Results parameter in the UNATTEND.TXT file. The Display Results parameter determines whether a window shows you how the login is progressing while you log in.

**Parameter:** Display_Results

   **Syntax:** !Display_Results = yes|no

**Overwrite parameter:** Display_Results_OverWriteValue

   **Syntax:** !Display_Results_OverWriteValue = yes|no

**Example:**

   !Display_Results = yes
   !Display_Results_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information to enable the <u>Display Connection Page</u> option from the UNATTEND.TXT file:

**Parameter:** Display_Connection_Page

    **Syntax:** !Display_Connection_Page = yes|no

**Overwrite parameter:** Display_Connection_Page_OverWriteValue

    **Syntax:** !Display_Connection_Page_OverWriteValue = yes|no

**Example:**

    !Display_Connection_Page = no

    !Display_Connection_Page_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information to set the <u>Caption</u> parameter from the UNATTEND.TXT file:

**Parameter:** Header_Message

    **Syntax:** !Header_Message = *message*

**Overwrite parameter:** Header_Message_OverWriteValue

    **Syntax:** !Header_Message_OverWriteValue = yes|no

**Example:**

    !Header_Message = Hello Maria

    !Header_Message_OverWriteValue = no

**UNATTEND.TXT Settings Information**

Use the following information when setting the <u>Large Internet Packets</u> parameter in the UNATTEND.TXT file:

**Parameter:** Large_Internet_Packets

    **Syntax:** !Large_Internet_Packets = on|off

**Overwrite parameter:** Large_Internet_Packets_OverWriteValue

    **Syntax:** !Large_Internet_Packets_OverWriteValue = yes|no

**Example:**

    !Large_Internet_Packets = on

    !Large_Internet_Packets_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information when setting the <u>LIP Start Size</u> parameter in the UNATTEND.TXT file:

**Parameter:** LIP_Start_Size

    **Syntax:** !LIP_Start_Size = *number*

**Overwrite parameter:** LIP_Start_Size_OverWriteValue

    **Syntax:** !LIP_Start_Size_OverWriteValue = yes|no

**Example:**

    !LIP_Start_Size = 124

    !LIP_Start_Size_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information when setting the <u>Link Support Layer Max Buffer Size</u> parameter in the UNATTEND.TXT file:

**Parameter:** LSLMaxBufferSize

    **Syntax:** !LSLMaxBufferSize = *number*

**Overwrite parameter:** LSLMaxBufferSize_OverWriteValue

    **Syntax:** !LSLMaxBufferSize_OverWriteValue = yes|no

**Example:**

    !LSLMaxBufferSize = 4736

    !LSLMaxBufferSize_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information to set the <u>Login Script</u> option from the UNATTEND.TXT file:

**Parameter:** Login_Script

    **Syntax:** !Login_Script = *path to login script*

**Overwrite parameter:** Login_Script_OverWriteValue

    **Syntax:** !Login_Script_OverWriteValue = yes|no

**Example:**

    !Login_Script = F:\SCRIPTS\BOB

    !Login_Script_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information when setting the <u>Long Machine Type</u> parameter in the UNATTEND.TXT file:

**Parameter:** Long_Machine_Type

    **Syntax:** !Long_Machine_Type = "*name"*

**Overwrite parameter:** Long_Machine_Type_OverWriteValue

    **Syntax:** !Long_Machine_Type_OverWriteValue = yes|no

**Example:**

    !Long_Machine_Type = "COMPAQ"

    !Long_Machine_Type_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information when setting the <u>NWIP 1.1 Compatibility</u> parameter in the UNATTEND.TXT file:

**Parameter:** NWIP1_1_Compatibility

    **Syntax:** !NWIP1_1_Compatibility = on|off

**Overwrite parameter:** NWIP1_1_Compatibility_OverWriteValue

    **Syntax:** !NWIP1_1_Compatibility_OverWriteValue = yes|no

**Example:**

    !NWIP1_1_Compatibility = off

    !NWIP1_1_Compatibility_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information when setting the <u>Nearest NWIP Server</u> parameter in the UNATTEND.TXT file:

**Parameter:** Nearest_NWIP_Server

    **Syntax:** !Nearest_NWIP_Server = *servername*

**Overwrite parameter:** Nearest_NWIP_Server_OverWriteValue

    **Syntax:** !Nearest_NWIP_Server_OverWriteValue = yes|no

**Example:**

    !Nearest_NWIP_Server = mydss.atlantic.com

    !Nearest_NWIP_Server_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information when setting the NetWare* Storage of the <u>Roaming Profiles</u> parameter in the UNATTEND.TXT file.

**Parameter:** NetWare_Storage_Of_Roaming_Profiles

    **Syntax:** !NetWare_Storage_Of_Roaming_Profiles = yes|no

**Overwrite parameter:** NetWare_Storage_Of_Roaming_Profiles_OverWriteValue

    **Syntax:** !NetWare_Storage_Of_Roaming_Profiles_OverWriteValue = yes|no

**Storage Type parameter:** Storage_Type (radio button on **Advanced Login** property page)

    **Syntax:** !Storage_Type = Home Directory|File System Pointer

**Storage Type Overwrite parameter:** !Storage_Type_OverWriteValue = yes|no

**Example:**

    !NetWare_Storage_Of_Roaming_Profiles = yes

    !NetWare_Storage_Of_Roaming_Profiles_OverWriteValue = yes

    !Storage_Type = Home Directory

    !Storage_Type_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information when setting the <u>Opportunistic Locking</u> parameter in the UNATTEND.TXT file:

**Parameter:** Opportunistic_Locking

    **Syntax:** !Opportunistic_Locking = on|off

**Overwrite parameter:** Opportunistic_Locking_OverWriteValue

    **Syntax:** !Opportunistic_Locking_OverWriteValue = yes|no

**Example:**

    !Opportunistic_Locking = on

    !Opportunistic_Locking_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information to set the NetWare/IP Port Number option from the UNATTEND.TXT file:

**Parameter:** Port_Number

    **Syntax:** !Port_Number = *number* (range: 0 to FFFF hex)

**Overwrite parameter:** Port_Number_OverWriteValue

    **Syntax:** !Port_Number_OverWriteValue = yes|no

**Example:**

    !Port_Number = ABCD

    !Port_Number_OverWriteValue = no

**Notes**

This parameter designates the hex port number for the NetWare/IP custom port.

A DNS server must exist and the Remote_Config parameter must be set for this parameter to be valid.

**UNATTEND.TXT Settings Information**

Use the following information when setting the Preferred Bindery Server parameter in the UNATTEND.TXT file:

**Parameter:** Preferred_Bindery_Server

    **Syntax:** !Preferred_Bindery_Server = *server name*

**Overwrite parameter:** Preferred_Bindery_Server_OverWriteValue

    **Syntax:** !Preferred_Bindery_Server_OverWriteValue = yes|no

**Example:**

    !Preferred_Bindery_Server = Sales_server

    !Preferred_Bindery_Server_OverWriteValue = no

**Note:** The Preferred Bindery Server parameter can also be set in the dialog box used for initial login. This parameter specifies the server this client should attach to when connecting to NetWare using the bindery.

**UNATTEND.TXT Settings Information**

Use the following information when setting the <u>Receive Broadcast Messages</u> parameter in the UNATTEND.TXT file.

**Parameter:** Receive_Broadcast_Messages

    **Syntax:** !Receive_Broadcast_Messages = All|Server Only|None

**Overwrite parameter:** Receive_Broadcast_Messages_OverWriteValue

    **Syntax:** !Receive_Broadcast_Messages_OverWriteValue = yes|no

**Example:**

    !Receive_Broadcast_Messages= All

    !Receive_Broadcast_Messages_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information to enable the Remote Configuration option from the UNATTEND.TXT file. This option can also be set on the NetWare/IP property page. It allows preexisting DHCP parameters to determine the workstation or server network parameters.

**Parameter:** Remote_Config

    **Syntax:** !Remote_Config = on|off

**Overwrite parameter:** Remote_Config_OverWriteValue

    **Syntax:** !Remote_Config_OverWriteValue = yes|no

**Example:**

    !Remote_Config = on

    !Remote_Config_OverWriteValue = no

**UNATTEND.TXT Settings Information**

Use the following information to enable the Remove Microsoft NetWare Client option from the UNATTEND.TXT file.

If you set the Ask Remove MS NetWare Client parameter to YES, a dialog box will appear during installation asking the workstation user whether to delete the Microsoft** client.   If you set it to NO, that dialog box does not appear.

If you set the Remove MS NetWare Client parameter to YES, the Microsoft client will be removed if the dialog box asking whether you want to remove the client does not appear.   If the dialog box does appear, the **Yes** button will be the default button.   If you set this parameter to NO, the opposite is true.

**Parameter:** AskRemoveMSNetWareClient

    **Syntax:** !AskRemoveMSNetWareClient = yes|no

**Parameter:** RemoveMSNetWareClient

    **Syntax:** !RemoveMSNetWareClient = yes|no

**Example:**

    !AskRemoveMSNetWareClient = no

    !RemoveMSNetWareClient = yes

    In this example, the Microsoft client will be removed without the workstation user being asked whether to delete it.

**UNATTEND.TXT Settings Information**

Use the following information to set the <u>Run scripts</u> option from the UNATTEND.TXT file:

**Parameter:** Run_Scripts

    **Syntax:** !Run_Scripts = yes|no

**Overwrite parameter:** Run_Scripts_OverWriteValue

    **Syntax:** !Run_Scripts_OverWriteValue = yes|no

**Example:**

    !Run_Scripts = no

    !Run_Scripts_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information when setting the <u>Short Machine Type</u> parameter in the UNATTEND.TXT file:

**Parameter:** Short_Machine_Type

    **Syntax:** !ShortMachineType = "*name"*

**Overwrite parameter:** ShortMachineType_OverWriteValue

    **Syntax:** !ShortMachineType_OverWriteValue = yes|no

**Example:**

    !ShortMachineType = "AST"

    !ShortMachineType_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information when setting the <u>Signature Level</u> parameter in the UNATTEND.TXT file:

**Parameter:** Signature_Level

    **Syntax:** !Signature_Level = *number*

**Overwrite parameter:** Signature_Level_OverWriteValue

    **Syntax:** !Signature_Level_OverWriteValue = yes|no

**Example:**

    !Signature_Level = 1

    !Signature_Level_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Tree and Name Context pairs can be entered using the sets of variables.   Enter multiple pairs by copying the three variables and increasing the integer number at the end of the variable names.

**Note:**   You cannot skip integers.   If you set the variables with the integers 1, 2, 3, 5, 6, then only the first three will work.

Use the following information when setting the <u>Tree and Name Context</u> parameter in the UNATTEND.TXT file:

**Parameter:** Tree_List*number*

   **Syntax:** !Tree_List*number* = *tree name*

**Parameter:** Default_Context_List*number* = *context*

   **Syntax:** !Default_Context_List*number* = *context*

**Overwrite Parameter:** Tree_List_OverWriteValue*number*

   **Syntax:** !Tree_List_OverWriteValue*number* = yes|no

**Example:**

   !Tree_List1 = ACME_Tree

   !Default_Context_List1 = gdavis.mktg.ACME_Tree

   !Tree_List_OverWriteValue1 = yes

   !Tree_List2 = Sales_Tree

   !Default_Context_List2 = gdavis.domestic.Sales_Tree

   !Tree_List_OverWriteValue2 = yes

**UNATTEND.TXT Settings Information**

Use the following information to set the <u>Use NWIP Custom Port</u> option from the UNATTEND.TXT file.

**Parameter:** Use_Custom_Port

    **Syntax:** !Use Custom Port = off

**Overwrite parameter:** Use_Custom_Port_OverWriteValue

    **Syntax:** !Use_Custom_Port_OverWriteValue = on|off

**Example:**

    !Use_Custom_Port = no

    !Use_Custom_Port_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

The UseNetWareGINA parameter, if enabled, installs the Novell* IntranetWare* Client* for Windows** NT** GINA Authenticator when a third-party GINA is detected.

If this parameter is set to YES, the IntranetWare GINA is installed and the third-party GINA is removed.   If this parameter is set to NO, the installer will prompt the user to either remove the third-party GINA or cancel the installation.

Use the following information when setting this parameter in the UNATTEND.TXT file.

**Parameter:** UseNetWareGINA

**Syntax:** !UseNetWareGINA = yes|no

**Example:**

!UseNetWareGINA = yes

**UNATTEND.TXT Settings Information**

Use the following information to set the Clear current connections option from the UNATTEND.TXT file:

**Parameter:** Clear_Current_Connections

    **Syntax:** !Clear_Current_Connections = yes|no

**Overwrite parameter:** Clear_Current_Connections_OverWriteValue

    **Syntax:** !Clear_Current_Connections_OverWriteValue = yes|no

**Example:**

    !Clear_Current_Connections = yes

    !Clear_Current_Connections_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information to set the <u>Close script results automatically</u> option from the UNATTEND.TXT file:

**Parameter:** Close_Script_Results_Automatically

    **Syntax:** !Close_Script_Results_Automatically = yes|no

**Overwrite parameter:** Close_Script_Results_Automatically_OverWriteValue

    **Syntax:** !Close_Script_Results_Automatically_OverWriteValue = yes|no

**Example:**

    !Close_Script_Results_Automatically = yes

    !Close_Script_Results_Automatically_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information to set the <u>Display Variables Page</u> option from the UNATTEND.TXT file:

**Parameter:** Display_Variables_Page

    **Syntax:** !Display_Variables_Page = yes|no

**Overwrite parameter:** Display_Variables_Page_OverWriteValue

    **Syntax:** !Display_Variables_Page_OverWriteValue = yes|no

**Example:**

    !Display_Variables_Page = no

    !Display_Variables_Page_OverWriteValue = yes

**Setting Individual Variables Syntax**

You can define up to four variables and their Overwrite values in the UNATTEND.TXT file by using the following syntax:

    !%2 = *variable*

    !%2_OverWriteValue = yes|no

    !%3 = *variable*

    !%3_OverWriteValue = yes|no

    !%4 = *variable*

    !%4_OverWriteValue = yes|no

    !%5 = *variable*

    !%5_OverWriteValue = yes|no

**UNATTEND.TXT Settings Information**

Use the following information to set the <u>Display Script Page</u> option from the UNATTEND.TXT file:

**Parameter:** Display_Script_Page

    **Syntax:** !Display_Script_Page = yes|no

**Overwrite parameter:** Display_Script_Page_OverWriteValue

    **Syntax:** !Display_Script_Page_OverWriteValue = yes|no

**Example:**

    !Display_Script_Page = no

    !Display_Script_Page_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information to set the <u>First Network Drive</u> option from the UNATTEND.TXT file:

**Parameter:** First_Network_Drive

    **Syntax:** !First_Network_Drive = *drive letter*

**Overwrite parameter:** First_Network_Drive_OverWriteValue

    **Syntax:** !First_Network_Drive_OverWriteValue = yes|no

**Example:**

    !First_Network_Drive = G

    !First_Network_Drive_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information to set the <u>Log in to server</u> option from the UNATTEND.TXT file:

**Parameter:** Login_To_Server

    **Syntax:** !Login_To_Server = yes|no

**Overwrite parameter:** Login_To_Server_OverWriteValue

    **Syntax:** !Login_To_Server_OverWriteValue = yes|no

**Example:**

    !Login_To_Server = yes

    !Login_To_Server_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information when setting the <u>Packet Burst Read Window Size</u> parameter in the UNATTEND.TXT file:

**Parameter:** Pburst_Read_Window_Size

    **Syntax:** !Pburst_Read_Window_Size = *number*

**Overwrite parameter:** Pburst_Read_Window_Size_OverWriteValue

    **Syntax:** !Pburst_Read_Window_Size_OverWriteValue = yes|no

**Example:**

    !Pburst_Read_Window_Size = 36000

    !Pburst_Read_Window_Size_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information when setting the <u>Packet Burst Write Window Size</u> parameter in the UNATTEND.TXT file:

**Parameter:** Pburst_Write_Window_Size

    **Syntax:** !Pburst_Write_Window_Size = *number*

**Overwrite parameter:** Pburst_Write_Window_Size_OverWriteValue

    **Syntax:** !Pburst_Write_Window_Size_OverWriteValue = yes|no

**Example:**

    !Pburst_Write_Window_Size = 15000

    !Pburst_Write_Window_Size_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information when setting the <u>Minimum Time To Net</u> parameter in the UNATTEND.TXT file:

**Parameter:** Minimum_Time_To_Net

    **Syntax:** !Minimum_Time_To_Net = *number*

**Overwrite parameter:** Minimum_Time_To_Net_OverWriteValue

    **Syntax:** !Minimum_Time_To_Net_OverWriteValue = yes|no

**Example:**

    !Minimum_Time_To_Net = 0

    !Minimum_Time_To_Net_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information when setting the <u>Preferred DSS</u> parameter in the UNATTEND.TXT file:

**Parameter:** Preferred_DSS

    **Syntax:** !Preferred_DSS*1-5* = *server name*

**Overwrite parameter:** Preferred_DSS_OverWriteValue

    **Syntax:** !Preferred_DSS*1-5*_OverWriteValue = yes|no

**Example:**

    !Preferred_DSS1 = dss.atlantic.com

    !Preferred_DSS1_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information when setting the <u>Preferred Server</u> parameter in the UNATTEND.TXT file:

**Parameter:** Preferred_Server

    **Syntax:** !Preferred_Server*1-5* = *server name*

**Overwrite parameter:** Preferred_Server_OverWriteValue

    **Syntax:** !Preferred_Server*1-5*_OverWriteValue = yes|no

**Example:**

    !Preferred_Server1 = Sales_server

    !Preferred_Server1_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information to set the **<u>Profile Script</u>** option from the UNATTEND.TXT file.

**Parameter:** Profile_Script

    **Syntax:** !Profile_Script = *path to profile script*

**Overwrite parameter:** Profile_Script_OverWriteValue

    **Syntax:** !Profile_Script_OverWriteValue = yes|no

**Example:**

    !Profile_Script = C:\SCRIPTS\PROFILE

    !Profile_Script_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information when setting the <u>Save Settings When Exiting Login</u> parameter in the UNATTEND.TXT file:

**Parameter:** Save_Settings_When_Exiting_Login

    **Syntax:** !Save_Settings_When_Exiting_Login = yes|no

**Overwrite parameter:** Save_Settings_When_Exiting_Login_OverWriteValue

    **Syntax:** !Save_Settings_When_Exiting_Login_OverWriteValue = yes|no

**Example:**

    !Save_Settings_When_Exiting_Login = yes

    !Save_Settings_When_Exiting_Login_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information when setting the <u>Burst Mode</u> parameter in the UNATTEND.TXT file:

**Parameter:** Burst_Mode

    **Syntax:** !Burst_Mode = yes|no

**Overwrite parameter:** Burst_Mode_OverWriteValue

    **Syntax:** !Burst_Mode_OverWriteValue = yes|no

**Example:**

    !Burst_Mode = yes

    !Burst_Mode_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information when setting the <u>Auto Retry Secs</u> parameter in the UNATTEND.TXT file:

**Parameter:** AutoRetry_Secs

    **Syntax:** !AutoRetry_Secs = *number*

**Overwrite parameter:** AutoRetry_Secs_OverWriteValue

    **Syntax:** !AutoRetry_Secs_OverWriteValue = yes|no

**Example:**

    !AutoRetry_Secs = 12

    !AutoRetry_Secs_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information to enable the <u>Log in to tree</u> option from the UNATTEND.TXT file:

**Parameter:** Login_To_Tree

    **Syntax:** !Login_To_Tree = yes|no

**Overwrite parameter:** Login_To_Tree_OverWriteValue

    **Syntax:** !Login_To_Tree_OverWriteValue = yes|no

**Example:**

    !Login_To_Tree = no

    !Login_To_Tree_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information when setting the <u>NWIP Domain Name</u> parameter in the UNATTEND.TXT file:

**Parameter:** NWIP_Domain_Name

    **Syntax:** !NWIP_Domain_Name = *domain name*

**Overwrite parameter:** NWIP_Domain_Name_OverWriteValue

    **Syntax:** !NWIP_Domain_Name_OverWriteValue = yes|no

**Example:**

    !NWIP_Domain_Name = Sales

    !NWIP_Domain_Name_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information when setting the Accept License Agreement parameter in the UNATTEND.TXT file:

**Parameter:** AcceptLicenseAgreement

  **Syntax:** !AcceptLicenseAgreement = yes|no

**Example:**

  !AcceptLicenseAgreement = no

**Note**

If you set this parameter to NO, the license agreement will pop up during installation. If you set the parameter to YES, the license agreement will not appear during installation, but will be declaring that you accept the agreement on behalf of your organization and are responsible for compliance with the terms and conditions of the agreement by the users in your organization.

**UNATTEND.TXT Settings Information**

The Ask Reboot parameter can be used to customize the installation process.   Use the following information when setting this parameter in the UNATTEND.TXT file:

**Parameter:** AskReboot

    **Syntax:** !AskReboot = yes|no

**Example:**

    !AskReboot = no

**Note**

If you set the parameter to YES, the final installation screen displays to the user when the installation process begins. This screen tells the user that the workstation must be rebooted before the new installation takes effect and asks whether to reboot the workstation.   If you set this parameter to NO, the workstation automatically reboots after the installation process is complete.

**UNATTEND.TXT Settings Information**

Use the following information when setting the AskNetWareIP parameter in the UNATTEND.TXT file.

**Parameter:** AskNetWareIP

    **Syntax:** !AskNetWareIP = yes|no

**Example:**

    !AskNetWareIP = yes

**See also**

    InstallNetWareIP

**UNATTEND.TXT Settings Information**

Use the following information to set the <u>path</u> where a roaming profile is stored from the UNATTEND.TXT file.

**Parameter:** File_System_Pointer_Path

    **Syntax:** !File_System_Pointer_Path = *path*

**Overwrite parameter:** File_System_Pointer_Path_OverWriteValue

    **Syntax:** !File_System_Pointer_Path_OverWriteValue = yes|no

**Example:**

    !File_System_Pointer_Path = F:\PROFILES

    !File_System_Pointer_Path_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

Use the following information when setting the <u>InstallNetWareIP</u> parameter in the UNATTEND.TXT file.

**Parameter:** InstallNetWareIP

    **Syntax:** !InstallNetWareIP = yes|no

**Example:**

    !InstallNetWareIP = yes

**See also**

    <u>AskNetWareIP</u>

**UNATTEND.TXT Settings Information**

Use the following information when setting the <u>NSQ Broadcast</u> parameter in the UNATTEND.TXT file:

**Parameter:** NSQ_Broadcast

    **Syntax:** !NSQ_Broadcast = on|off

**Overwrite parameter:** NSQ_Broadcast_OverWriteValue

    **Syntax:** !NSQ_Broadcast_OverWriteValue = yes|no

**Example:**

    !NSQ_Broadcast = on

    !NSQ_Broadcast_OverWriteValue = yes

**UNATTEND.TXT Settings Information**

The version parameters can be any number from 0 through 4,294,967,295.   If this number is greater than the version number stored in the registry, the configuration settings in the UNATTEND.TXT file are written to the registry and this number is stored as the new version number.   Otherwise, they aren't.   The first time the Novell* IntranetWare* Client* for Windows** NT** software is installed, no version number is in the registry.   In this case, the version numbers are written to the registry.

There is an additional version number that the Administrator cannot change.   So, if Novell delivers a new client, the Administrator can upgrade without affecting major and minor internal version numbers.

Use the following information when setting the version parameters in the UNATTEND.TXT file:

**Parameter:** Major Internal Version

    **Syntax:** !MajorInternalVersion = *number*

**Parameter:** Minor Internal Version

    **Syntax:** !MinorInternalVersion = *number*

**Example:**

    !MajorInternalVersion = 0

    !MinorInternalVersion = 0

## Performing a Novell IntranetWare Client for Windows NT Install Using UNATTEND.TXT

You can install the Novell* IntranetWare* Client* for Windows** NT** software on several workstations at the same time by using the unattended install feature.   This can save a tremendous amount of time.

**To Perform an unattended install**

1.  Copy the Novell Client CD to the network.

2.  Open the Novell IntranetWare Client for Windows NT UNATTEND.TXT file.

    This file is located in the I386\NLS\*language* directory on the Novell IntranetWare Client for Windows NT installation disk, and in the NLS\*language* directory on the first installation diskette.

3.  Edit UNATTEND.TXT to set your preferences.

    By default, all Novell IntranetWare Client for Windows NT parameters are commented out with a semicolon. Remove the semicolons from any parameters you want to change and edit the parameter settings.   These parameters will then be set automatically during the software installation.

4.  Save the file.

    You can save the file with any filename you want to use.   For example, you could rename the file NOVELL.TXT.

5.  Log each of the new machines in to the network

6.  To start the installation, enter the following on the command line:

    SETUPNW /u:*path to unattend file*

    For example:

    SETUPNW /u:f:\public\ntclient\novell.txt


* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

**Use NWIP Custom Port:**   This option is for networks where the default NWIP port (0xABCD) is not used. Configuring the correct NWIP default port will improve NWIP client startup in NetWare/IP* 2.2 networks.

Enter the custom port as a hexadecimal value.

**Default:** OFF (unchecked)

You can also change this parameter in the UNATTEND.TXT file.


* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

## Using ACU

**To install Novell\* IntranetWare\* Client\* for Windows\*\* NT\*\* software using the Automatic Client Upgrade option**

1. <u>Create</u> an ACU folder.

   The ACU folder is where the Novell client software is installed from.

2. Modify the <u>login script</u> and the <u>UNATTEND.TXT</u> file.

   The login script should contain this command:

   *path to ACU folder*\setupnw.exe /acu

3. Log in to IntranetWare.

   If Novell IntranetWare Client for Windows NT is not yet installed, you will need to log in to IntranetWare using the <u>Microsoft client</u>.

4. <u>Upgrade</u> the Novell IntranetWare Client for Windows NT software.


\* Novell trademark.   \*\* Third-party trademark.   For more information, see <u>Trademarks</u>.

# Using the SETUPNW.EXE Utility

## Overview

SETUPNW.EXE provides a flexible and intuitive means for installing Novell* IntranetWare* Client* for Windows** NT** software.   It allows the user to install the client software without using the control panel.   SETUPNW.EXE also provides options for specifying which Unattended file to use and deciding whether to prompt for default information.

SETUPNW also provides the means for the network supervisor to automatically install the client software.

The syntax for SETUPNW.EXE is as follows:

SETUPNW.EXE [/U[:*unattended file path*]] [/ACU] [/?]

**/U**  Uses a text file to specify the default functionality.   The default text file, UNATTEND.TXT, is used if no alternative is presented with the /U:*unattended file path* options.

**/ACU**   Specifies that the install is to check the version stamp and proceed silently to use the defaults.   If not all the values can be defaulted, you will be prompted only if absolutely necessary.   If used in conjunction with the /U option, the defaults will be taken from the Unattended file.

**/W**   Installs the Workstation Manager utility.

**/?**   Displays information about using SETUPNW.EXE.

## What SETUPNW.EXE does during installation

When installing Novell IntranetWare Client for Windows NT, SETUPNW performs the following actions:

- Removes any existing IntranetWare Client software, such as the Microsoft** Client Services for NetWare.
- Installs Novell IntranetWare Client for Windows NT.

Some Novell IntranetWare Client for Windows NT files are copied to the WINNT\SYSTEM32\NETWARE folder on the workstation hard disk. Other files are copied to appropriate Windows NT folders, such as the \WINDOWS\ SYSTEM32 and \WINDOWS\HELP folders.

- Updates the system registry with information needed to start Novell IntranetWare Client for Windows NT automatically each time Windows NT starts.

## Procedure for a basic installation

To install Novell IntranetWare Client for Windows NT, follow these steps:

1. Insert the Novell IntranetWare Client for Windows NT CD into your workstation CD-ROM drive.

2. Change to the I386 directory, where SETUPNW.EXE is located.

3. Start SETUPNW.EXE.

   A title screen appears.

4. Choose **Continue**.

5. Go through the installation process.

   Most of this process is performed automatically by SETUPNW.EXE. It mainly involves copying and decompressing files.

6. Choose **OK**.


\* Novell trademark.   \*\* Third-party trademark.   For more information, see Trademarks.

**Using the Save Settings when Exiting Login Check Box**

If you check the **Save settings when exiting Login** check box, the settings you changed or entered are saved when you leave the **IntranetWare\* Login** configuration page.   If you do not check the check box, your settings are not saved.

You can also set this option from the UNATTEND.TXT file.


\* Novell trademark.   \*\* Third-party trademark.   For more information, see Trademarks.

**Setting Welcome Screen options**

The **Welcome Screen** portion of the **Advanced Login** property page is where you customize the welcome screen that appears when you start Windows NT. There are two options:

- <u>Bitmap Filename</u>
- <u>Caption</u>

## What the User Sees

When the user at the client workstation logs in, the Automatic Client Upgrade checks the client's files to see if the version of the new client in the install directory is newer than the client's files.   If they are, the user sees a dialog box that says a newer version of the client is available.

If the user chooses **Continue**, the upgrade starts automatically and the user sees an installation progress indicator as the newer files are copied.   If the user chooses **Cancel**, the network continues to function without the upgrade. However, each time the user logs in with the older client, the files are compared and the option to upgrade is presented.

After the client has been updated, the user sees a dialog box presenting the option to reboot the workstation, unless ACU was run with the /U option and the parameter was configured so that it would not show this dialog box--in which case, there's no dialog box.   To prevent the welcome and reboot dialog boxes from appearing, set the following parameters in the UNATTEND.TXT file:

DisplayInitialScreen = no

AskReboot = no

The client workstation must be rebooted in order for the newer version of IntranetWare* to take effect.


* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

## What's New: Overview

**Minimal Configuration Needed**

The Novell* IntranetWare* Client* for Windows** NT** software is designed to minimize the need for configuration. Most settings have default values that work well in most environments. Therefore, you shouldn't have to spend a lot of time configuring the Novell IntranetWare Client for Windows NT software.

**Many Configuration Settings Available**

Nevertheless, for those of you with unique needs or preferences, Novell IntranetWare Client for Windows NT allows you to change its configuration settings to meet your wants and needs.

**New Configuration Methods**

Novell IntranetWare Client for Windows NT is configured using property pages. It can also be configured during installation using an UNATTEND.TXT file. Novell IntranetWare Client for Windows NT is not configured using a NET.CFG file.

**Why Use Property Sheets**

Property sheets allow you to change Novell IntranetWare Client for Windows NT settings at a workstation using a graphical interface that includes help for each of the settings.

**Why Use an UNATTEND.TXT File**

The UNATTEND.TXT file allows you to configure the Novell IntranetWare Client for Windows NT settings during installation. By installing from an IntranetWare server, you can configure multiple workstations using the same UNATTEND.TXT file. The UNATTEND.TXT file uses NT INF file syntax. However, you should be familiar with the settings that are supported by Novell IntranetWare Client for Windows NT. Some parameters from previous IntranetWare clients are no longer supported, some parameters have changed, and there are some new parameters.

**Configuration Settings Are in the Registry**

The Novell IntranetWare Client for Windows NT configuration settings are stored in the system registry (not in the NET.CFG file). You should not edit the system registry directly. Use property sheets instead.

**Long Filename Support**

Novell IntranetWare Client for Windows NT supports long filenames. This requires using the OS/2** name space. For more information, see Configuring for Long Filename Support.


\* Novell trademark. \*\* Third-party trademark. For more information, see Trademarks.

## NetWare/IP Services Provided

NetWare*/IP* provides the following support services:

- The Domain SAP/RIP Service (DSS) maintains two types of information required by IntranetWare servers and clients:
- Service Advertising Protocol (SAP) information about the available IntranetWare services
- Routing Information Protocol (RIP) information about routes between IntranetWare servers

  Once configured, the DSS automatically maintains this information and makes it available to all NetWare/IP nodes.   NetWare/IP servers and clients use DSS servers to obtain service and routing information.

- The Domain Name Service (DNS) is a distributed database system used to locate computers in TCP/IP internetworks.   NetWare/IP servers and clients use DNS to locate the DSS server.

* Novell trademark.   ** Third-party trademark.   For more information, see Trademarks.

**Policy**

The policy file is a .POL file that contains Windows** NT** Client Policy settings.   These are setting that are created and edited using POLEDIT with the NT Client template.   The policies are applied or written to the registry each time a user logs in to the network.

* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</u>.

## Removing a Network Adapter Card Driver on a Novell IntranetWare Client for Windows NT 3.51 Workstation

When you remove a LAN driver, any settings connected with that driver are also removed, such as the port number and IRQ settings.   You should have specified these settings when you installed the LAN driver.   Also, if you are using the TCP/IP protocol stack, settings such as IP address and net mask are removed.

**To remove an existing network adapter card driver**

1.  Log in to the Windows** NT** workstation as an NT user who is a member of the Administrators group.

2.  From the **Main** group, choose **Control Panel**.

3.  Choose **Network**.

4.  From the **Installed Adapter Cards** list, choose the driver you want to remove.

5.  Choose **Remove**.

    The driver and all settings are removed.


\* Novell trademark.   \*\* Third-party trademark.   For more information, see <u>Trademarks</u>.

**Defining Variables**

You can define up to four variables to be used by the login scripts.   You or your network supervisor can set up your login scripts to use these variables.

For example, you might define one variable as MAIL.   Your login script might use the MAIL variable to map drives to the mail server.

To define a variable, enter it in the appropriate variable field on the **Login** property page in the Novell IntranetWare Client Services configuration page. This configuration page can be found in the Network control panel.   Variables can be up to 255 characters long.

You can also set this option from the UNATTEND.TXT file.

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