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Automatic Client Upgrade Overview

Introduction

Novell's Automatic Client Upgrade (ACU) provides a way to automatically upgrade Novell* IntranetWare* Client* for Windows** NT** software.   ACU executes an instruction placed by the network supervisor in a login script and then seamlessly upgrades clients during login.

To use the Automatic Client Upgrade, the supervisor adds an instruction (SETUPNW.EXE /ACU) to the login script that runs the Automatic Client Upgrade from that folder.   With this in place, the client login runs as usual if there is no need to upgrade.   If the client version on the workstation is not current with the version on the server, however, the user sees a dialog box stating that there are more recent files.   The user can choose to **Continue** or **Cancel** the option to upgrade the client software.

When you run SETUPNW.EXE /ACU /U:[*path to UNATTEND.TXT*]\UNATTEND.TXT, SETUPNW.EXE uses the UNATTEND.TXT file to set many of the client's defaults.

Note: A typical command for this process would be:

SETUPNW.EXE /ACU /U:C:\WINNT\SYSTEM32\NLS\ENGLISH\UNATTEND.TXT

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

Using the Novell IntranetWare Client for Windows NT SETUPNW.EXE Program

Overview

This help file explains how to use SETUPNW.EXE to install the Novell* IntranetWare* Client* for Windows** NT** software for the first time on a single workstation.   For more complete instructions, including instructions on how to install on multiple workstations at once, refer to the Help files that are installed with the Novell IntranetWare Client for Windows NT software.

Installing Novell IntranetWare Client for Windows NT

<u>Features</u> of the Install utility

<u>Preparing</u> to install Novell IntranetWare Client for Windows NT

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

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

Copying Client Files to a Network Directory

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.

   Use the File Manager or Network Neighborhood **Copy** option to copy the files from the CD to the network directory.

   Or, 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 <u>Trademarks</u>.

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 network 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 Trademarks.

Creating Installation Diskettes

1. Gather thirteen 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:

    "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"

    "IntranetWare 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>.

Features of the Install Utility

Features

- Install or update Novell* IntranetWare* Client* for Windows** NT** software running on a Windows NT workstation
- Detect and replace Microsoft** NetWare client
- Install from diskette, hard disk, server volume, or CD-ROM
- Configure client and configuration settings with a property page interface
- Remove source routing (if enabled) when you install NetWare/IP*
- Automatically upgrade the client so that it is installed when you log in
- Install the client using the easy, one-button setup
- Perform unattended installations

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

Forcing an Upgrade

In some cases, a network 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* for Windows** NT**, 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 through 4,294,967,295.   These version numbers are used to decide when the client upgrades.   To force the upgrade, the supervisor must make the version number higher than it is when UNATTEND.TXT is first opened (for example, 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>.

If You Want to Upgrade from Microsoft Client Using ACU

If you are using the bindery-based Microsoft** Client for NetWare* Networks, SETUPNW 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 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 <u>Trademarks</u>.

Installation Overview

After your workstation and servers are prepared, run SETUPNW.EXE.

See Also

Start installation notes

Modifying the Login Script

Depending upon which login script is modified, the network 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.

* 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.

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 from a previous version of the Novell IntranetWare Client for Windows NT software, your current workstation hardware and software configuration should be sufficient.

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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*

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 <u>Trademarks</u>.

Preparing IntranetWare and NetWare 4 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.

   For NetWare* 4.0 or 4.1, enter

      LOAD OS2.NAM

   For IntranetWare or NetWare 4.11, enter

      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 to Install Novell IntranetWare Client for Windows NT

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

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

Prepare NetWare 3.11 servers

Prepare IntranetWare and NetWare 4.1 servers

Check for a valid network connection

Prepare client workstations

Create client installation diskettes from CD-ROM (optional)

Set up for installation from a network directory (optional)

Edit the UNATTEND.TXT file

Preparing to Install 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 IntranetWare 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 on each client workstation you want to use on the network.

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

1. Copy 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.
3. Install Novell IntranetWare Client for Windows NT.

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

Running SETUPNW.EXE

1. (Conditional) If you are installing from diskette, insert the Setup 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 (normally, the I386 folder).

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

Setting Up Hardware and Software

In order for you to install the Novell* IntranetWare* Client* for Windows** NT** software, 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 network board manufacturer's documentation 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
- One of the following name spaces should be loaded if you want to support long filenames:
- IntranetWare or NetWare 4.11: LONG.NAM
- NetWare 3.11 through NetWare 4.1: OS2.NAM

  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.

Start Installation Notes

SETUPNW.EXE does the following:

- Removes any existing IntranetWare* client software, specifically:
- [Microsoft**] Client for NetWare Networks
- [Microsoft] Service for Novell Directory Services*
- Installs Novell* 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.

- The system registry is updated 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 Trademarks.

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Using the Unattended Install

You can install 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 <u>Trademarks</u>.

Using UNATTEND.TXT

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:

drive:*Windows NT directory*\system32\nls*language*

For example:

c:\winnt\system32\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 NT.INF 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 Administrator Defaults are written to the registry, including the version number.

- 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 documentation for each setting in the main Novell IntranetWare Client for Windows NT help.

* 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 lets you to install the client software without having to use the Control Panel.   It also lets you specify which Unattended file to use and choose whether to prompt for default information.

SETUPNW.EXE also provides the means for the network supervisor to <u>automatically install or update the client software</u>.

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, <u>UNATTEND.TXT</u>, 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.   The Novell Workstation Manager allows all user account information, both for Windows** NT** and Novell* Directory Services* (NDS*), to be centrally managed within NDS using a single administrative utility.   It also eliminates the need to have an NT domain or a large number of NT user accounts residing in the local Security Access Manager (SAM) of each workstation.

/?   Displays information about using SETUPNW.EXE.

To complete a Novell IntranetWare Client for Windows NT basic installation:

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.   <u>Start SETUPNW.EXE</u>.

A title screen appears.

4.   Choose **Continue**.

5.   Choose **OK**.

* Novell trademark.   ** Third-party trademark.   For more information, see <u>Trademarks</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 system files are 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 message and reboot dialog boxes from appearing, set the following parameters in the [NovellNetWareClientParameters] section of UNATTEND.TXT:

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 <u>Trademarks</u>.

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**.

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

Checking for a Valid Network Connection

To check for a valid network connection on a Windows NT 3.51 workstation:

1. Open File Manager.

2. Choose the **Connect Network Drive** option.

To check for a valid network connection on a Windows NT 4.0 workstation:

1. Open Network Neighborhood.

2. Check that the networks you expect to see actually appear in the Network Neighborhood window.