Adding a trusted tree to the Trusted Trees list

1. <u>Open</u> the Novell Workstation Manager property page.
2. In the text box, enter the name of the tree you want to add.
3. Choose the **Add** button.

Adding the NT User to NT Groups

When NWGINA creates the NT workstation user, it can provide group membership to any NT user groups.   The groups that the user is added to are listed in the **Workstation Groups** box.   The default configuration is for the user to be added to the Users group.   Other groups can be added with the **Add** button.

Associating an NDS Object with an NT Configuration object

To provide different types of workstation access to different NDS* users, create a number of different NT Configuration objects.   NDS users, groups, and containers can be associated with the appropriate NT Configuration object using the Associations page of the NT Configuration object.   NDS objects that are allowed to use a particular NT Configuration object are listed in the Associations window.   NDS objects can be associated to an NT Configuration object individually or through group and container associations.   To add an association, press the **Add** button and browse for the object to be associated.

Note: If there is more than one NT Configuration object associated with a user due to group or container memberships, NWGINA will use the first NT Configuration object it finds.   The object is found according to the following search pattern:

1. User
2. Group
3. Container
4. Country

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

Configuring the Registry for the Workstation Manager Snap-In

To use the Workstation Manager snap-in in NW Admin, you must turn it on in the registry.   This requires that some registry settings be added.   The WORKMAN.REG file in the I386 directory on the installation disk automatically sets these registry settings.   Double-click WORKMAN.REG to automatically change the registry.

When you run WORKMAN.REG, the registry is changed to include the following settings:

HKEY_CURRENT_USER

      Software

         NetWare

           Parameters

              NetWare Administrator

                 Snap-in Object DLLs WINNT

                    NWCSNAP: REG_SZ: NWSMGR32.DLL

Note: Because this registry setting is in HKEY_CURRENT_USER, it is a part of the current user profile on the local workstation.   If the administrator uses NWADMIN NT on a different workstation or as a different NT user, he needs to run WORMAN.REG for each administrative user on that workstation .

Configuring Workstation Manager

Use the Novell Workstation Manager property page to configure Workstation Manager.   The Novell Workstation Manager property page allows you to

- Enable Workstation Manager on one or more <u>trusted trees</u> by checking the **Enable Workstation Manager on these Trusted Trees** check box.
- <u>Add</u> one or more trees to the trusted trees list
- <u>Remove</u> trees from the trusted trees list
- <u>Replace</u> a tree in the trusted tress list with a different tree

See also

Opening the <u>Novell Workstation Manager property page</u>

Configuring the NWGINA and IntranetWare Login Tabs

The NWGINA interface is designed to provide significant ease and flexibility when logging in to NDS* and the local workstation.   NWGINA uses tabs to display various login and configuration options.   IntranetWare* Login also has most of the same tab options.   Network supervisors might not want to have all these tabs available for every user to modify.   The tabs that are displayed on the NT workstation can be centrally controlled and configured with the Workstation Manager.   The Login Tabs page is used to define which tabs are displayed.   The choice is made simply by checking the desired tab's check box.   Once the user logs in to the NT workstation, those settings are downloaded to the workstation.

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

Configuring the NWGINA Welcome Screen

The Welcome Screen page of the NT Configuration object allows supervisors to configure the welcome screen of NT workstation clients.

When a user first starts an NT workstation, a window containing a bitmap message indicates that the user must log in to the workstation by pressing Ctrl+Alt+Del before doing anything else.   This initial window is the NWGINA welcome screen.   Because this is the initial screen, everyone who accesses the workstation will see it.   There is significant potential for passing information to network users with this screen.   To allow customers the ability to use this information tool, NWGINA allows network supervisors to modify the text in the window header and replace the bitmap displayed in the welcome screen.

The Welcome Screen page of the NT Configuration object allows supervisors to configure the welcome screen of NT workstation clients.   The **Title Message** field contains the text displayed in the welcome screen window header.   If left blank, the default message is used.   The **Bitmap to Display** box shows the bitmap that will be placed within the welcome screen window.   If no bitmap is specified, the default NWELCOME.BMP is used.   To select a different bitmap, use the **Change** button and browse to the desired bitmap.

The information configured on this screen is activated the next time a user logs in on that workstation.

Title Message

The **Title Message** field contains the text displayed in the welcome screen window header.   If left blank, the default message is used.

To change the message:

1. Enter the new message.
2. Choose **OK**.

Bitmap to Display

The **Bitmap to Display** box shows the bitmap that will be placed within the welcome screen window.   If no bitmap is specified, the default NWELCOME.BMP is used.   To select a different bitmap:

1. Choose the **Change** button.
2. Browse to the desired bitmap.
3. Choose **OK**.

Novell Workstation Manager

Overview

This Help file contains instructions on using Novell Workstation Manager.

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.

The Workstation Manager stores Windows NT user and desktop configuration information in NDS. If a user's NDS user account is associated with this configuration information, then that user can access the network via any NT workstation configured with the Workstation Manager.   If the user does not have an account on the workstation at the time of login, Workstation Manager can create one according to the associated NT user information.   Once the user is attached to the network, an associated individual profile and policy can be downloaded to the workstation to provide a consistent desktop on each NT workstation being used.

The Workstation Manager has two components:

- Novell's implementation of the Graphical Identification and Authentication module for Windows NT (NWGINA)

   NWGINA is the component that collects the user's username and password and then authenticates the user to NDS and the NT Workstation.   In order to perform this operation, NWGINA runs on the NT workstation with administrative privileges.   This administrator-level access allows NWGINA to dynamically create and delete NT user accounts, provided it can obtain the necessary user information from the NT Configuration object.

- NetWare Administrator snap-in

   The snap-in stores the NT user information in an NDS NT Configuration object.   It consists of two DLLs that snap into the NetWare Administrator, Novell's NDS administrative utility.   By using NWADMNNT.EXE and the accompanying snap-in DLLS, the network supervisor can create NT Configuration objects within NDS containers.   This NT Configuration object stores all the information necessary for NWGINA to dynamically create a preconfigured user account on the NT workstation and grant a user access to NT when that user logs in to the NDS Directory tree.

See Also

Installing and configuring Workstation Manager

Creating an NT Configuration object

Using the Novell Workstation Manager property page

Using profiles and policies with Workstation Manager

Using Workstation Manager to upgrade the client software

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

Controlling Login Script Processing

With Workstation Manager, network supervisors can control how login scripts are processed on the workstation.

To configure login script processing

1. Open the NT Configuration object with NWAdmin NT.

2. Choose the **Login Scripts** tab.

3. Check the **Enable Login Scripts** check box.

   If this box is not checked, the scripts are not processed.

4. (Optional)   If you want the login script being processed to display in a window, check the **Show Script Results** check box.

5. (Optional)   If you want the login script window (see Step 4) to close automatically after after the login script is processed, check the **Close Script Window Automatically** check box.

6. (Optional)   If you want to use a login script other than the one specified in the NDS* User object, enter the path to the alternate login script in the **Alt. Login Script** box.

   You can browse for the login script by choosing the button to the right of the **Alt. Login Script** box.

7. (Optional)   If you want to use a profile script other than the one specified in the NDS* User object, enter the path to the alternate profile script in the **Alt. Profile Script** box.

   You can browse for the profile script by choosing the button to the right of the **Alt. Profile Script** box.

8. (Optional) If you want to specify variables to be used by the login script, define the variables in the **Login Script Variables** boxes.

   Login script variables provide a useful method for customizing login scripts to specific users or groups. Workstation Manager allows for central administration of these variables through NDS.   A total of four variables (%2, %3, %4, and %5) are available for login script processing purposes.   The values for each of these variables can be defined in the Login Script Variables fields.

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

Creating an NT Configuration Object

In order to dynamically create users on the local workstation, NWGINA needs to know the appropriate username, NT group membership, desktop and policy information, etc.   To store this information, the network supervisor creates an NT Configuration object with NetWare* Administrator.   When a user uses the NT Workstation to log in to NDS*, NWGINA uses the NT Configuration object to create a local user account for workstation access.

To Create an NT Configuration object

1. Start NWADMNNT.EXE.

    NWADMNNT.EXE is located in the SYS:/PUBLIC\WINNT directory on the server where you installed it.

2. If prompted to extend the schema on the tree, choose the tree from the list that appears and choose **Modify**.

3. From the Object menu, choose **Create**.

    The New Object window appears.

4. In the Class of New Object list box, choose **NT Configuration.**

5. Choose **OK**.

    The Create NT Configuration window appears.

6. Type in the name of the object you want to create.

7. Choose **Create**.

See also

You can use eight tab pages to configure the NT Configuration object using NW Admin NT:

Identifying an NT Configuration object

Controlling Login Tabs

Configuring Login Scripts

Managing Profiles and Policies

Configuring the Welcome Screen

Creating a Dynamic Local User

Using Workstation Manager to perform a Client Upgrade

Associating an NDS user with an NT Configuration object

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

Creating a Dynamic Local User Configuration

Once a user has been associated to an NT Configuration object, NWGINA can retrieve information from the NT Configuration object to create an NT user account on the workstation.   The specifics of the credential set, group memberships, account duration, etc., are defined in the Dynamic Local User page of the NT Configuration object.

See also

Managing existing accounts

Enabling dynamic user configuration

Specifying the user account as either volatile or nonvolatile

Defining the NT user account

Adding the NT user to NT groups

Defining the NT User Account

When creating the NT user account, NWGINA can use either the same credential set used for NDS* authentication or a predetermined credential set specified in the NT Configuration object.

To use the IntranetWare* credentials:

1. Open the NT Configuration object with NWAdmin NT.

2. Choose the **Dynamic Local User** tab.

3. Check the **Use IntranetWare Credentials** check box.

   When using IntranetWare credentials to create the workstation NT user account, NWGINA queries the user's NDS user account for the login name, full name, and description.   The password for the NT user account is the same as that for the NDS user account.

If IntranetWare credentials are not used, other credentials must be specified in the **NT Username** field.   **Full Name** and **Description** can also be included to provide a complete user description.   The password set for this user is randomly generated; therefore, this account would not be accessible when selecting the Windows NT Login Only option.

Note: If you don't use IntranetWare credentials and the User object does not already exist (as indicated by the Manage Existing Accounts check box), Workstation Manager will create the User object as a volatile User object, which means that the User object will be automatically deleted.   This will be apparent because the volatile user check box will be automatically selected if the **Use IntranetWare Credentials** check box is not selected.

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

Editing the UNATTEND.TXT to Install Workstation Manager

The UNATTEND.TXT file contains parameters used to automatically configure Novell* IntranetWare* Client* for Windows** NT** software during an unattended install.   Some of these parameters are used during the install of Workstation Manager.

- DisplayInitialScreen

  Disable the DisplayInitialScreen option:

  !DisplayInitialScreen=no

- AskReboot

  Disable the AskReboot option:

  !AskReboot=no

- Preferred Tree

  Set the Preferred Tree option to specify the tree containing the server that Workstation Manager will be used from:

  !Preferred_Tree = ACME_Tree

- Preferred Server

  Set the Preferred Server option to specify the server that Workstation Manager will be used from:

  !Preferred_Server = Sales_server

- Enable_Workstation_Manager

  Turn on the Enable Workstation Manager option:

  !Enable_Workstation_Manager = on

- Workstation_Manager_Trusted_Trees

  Specify the tree names of any trusted trees:

  !Workstation_Manager_Trusted_Trees = marketing, sales

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

-To enable Workstation Manager on a Trusted Tree

1. <u>Open</u> the Novell Workstation Manager property page.
2. Check the **Enable Workstation Manager on these Trusted Trees** check box.

Enabling a Dynamic User Configuration

NWGINA requires that you specify whether a local user is to be created.

Check the **Enable Dynamic Local User** check box to create the local user.

If **Enable Dynamic Local User** is checked, then NWGINA gets the NT username from the NT Configuration object and queries the local SAM to see if the username already exists.   If it does exist, NWGINA authenticates the user to the NT workstation and access is granted.   If the username does not exist, NWGINA creates the user on the local workstation SAM.

If this box is not checked, NWGINA does not create a user in the local Security Access Manager (SAM).   Instead, NWGINA attempts to find an existing NT user with the credentials indicated in the Windows** NT** tab of the NWGINA login interface.

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The **Identification** page describes the type of object you have selected.

Note: The Description box allows you to enter information about the object.   This information is for the benefit of the network supervisor and is not used by Workstation Manager.

Installing and Configuring Workstation Manager

Workstation Manager must be installed on both the server and the workstation.   Workstation Manager consists of two components:

- NWGINA

  NWGINA is a part of the Novell* IntranetWare* Client* for Windows** NT** software.   It must be enabled and a trusted trees list must be configured.

- Snap-in to NW Admin NT

  The snap-in must be installed on each server where NW Admin NT will be used to create NT Configuration objects.

To install and configure the Workstation Manager snap-in to NW Admin NT on the server

Use the administrative utilities installer to install and configure the Workstation Manager snap-in on the server and configure the workstation you will use when you run NW Admin NT.

To configure NWGINA on the workstation

There are four ways to configure Novell Workstation Manager on the workstation:

- Enable and configure a trusted trees list during an unattended install.
- Run the SETUPNW utility with the /W option.   For example:

  setupnw /w :*trusted trees*

  *(*Replace the variable with the names of trusted trees.   For example:

  setupnw /w :marketing1, marketing2, . . .)

- Manually configure NWGINA in the Novell Workstation Manager property page
- Manually configure NWGINA in the registry.

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

Installing Workstation Manager Using UNATTEND.TXT File

1. Edit the UNATTEND.TXT preconfiguration file.
2. Run SETUPNW.EXE /U.

Installing Workstation Manager with Administrative Utilities Installer

To install the administration utilities

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

2. Double-click **WORKMAN.REG**.

   Note: WORKMAN.REG automatically configures the current user's registry to use the NWAdmin snap-in DLLs. <u>You should understand the changes</u> that are being made before running this file.

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

4. Double-click **ADMSETUP.EXE**.

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

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

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

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

7. Check the check box next to the Workstation Manager's name.

8. (Conditional) If you have not yet installed the latest version of NetWare* Administrator, check the **NetWare Administrator** check box as well.

9. 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 Administrator rights to.

10. Choose **OK**.

    A progress screen with two progress bars appears.   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.

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

    OR

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

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

Managing Existing Accounts

Check this check box if the User object you want to manage with Workstation Manager already exists.   If the user exists and this option is set, Workstation Manager will manage the existing account.   Workstation group assignments specified by Workstation Manager will be implemented.   This also includes whether the Workstation Manager Volatile User check box is checked.   If this check box is checked, the account will be changed from nonvolatile to volatile when the user logs in to the account and removed from the workstation after the user logs out.

If this option is not checked, Workstation Manager cannot manage the existing User object.

Manually Enabling the Workstation Manager on the Workstation

The NWGINA component is included as a part of the Novell* IntranetWare* Client* for Windows** NT** software. You can manually enable NWGINA for Workstation Manager by setting the following key and values in the NT Local Registry.

Note: This procedure is not required and should be attempted only by users who are experienced with the registry.

HKEY_LOCAL_MACHINE

    SOFTWARE

        Novell

            NWGINA

                Workstation Manager

                    Enabled: DWORD: 0x1

                    Trusted Trees: REG_SZ: *Treename1*, *Treename2*

Replace *Treename1* and *Treename2* with the names of the trees that the workstation will obtain NT Configuration objects from.

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

Opening the Novell Workstation Manager Property Page

If you use Windows NT** 4.0**

1. From the **Start** menu, choose **Settings**.
2. Choose **Control Panel**.
3. Choose **Network**.
4. Choose **Services**.
5. Choose **Novell* IntranetWare* Client* for Windows NT**.
6. Choose **Properties**.
7. Choose **Novell Workstation Manager**.

If you use Windows NT 3.51

1. From the **Main** group, choose **Control Panel**.
2. Choose **Network**.
3. Choose **Novell IntranetWare Client for Windows NT**.
4. Choose **Configure**.
5. Choose **Novell Workstation Manager**.

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

To remove a trusted tree

1. <u>Open</u> the Novell Workstation Manager property page.
2. Choose a trusted tree from the **Trusted Tree** list.
3. Choose **Remove**.

To replace trusted trees

1. <u>Open</u> the Novell Workstation Manager property page.
2. Choose one or more trees from the **Trusted Trees** list.
3. In the text box, enter the name of the tree you want to use as the replacement for the chosen trees.
4. Choose **Replace**.

The **Schema Extension** dialog box lists any Directory trees that do not contain the latest changes for the Novell* IntranetWare* Client* for Windows** NT** product.   The **Schema Extension** dialog box will appear when first starting NW Admin with the Workstation Manager snap-in loaded if you are connected to an NDS tree that does not yet contain the necessary schema extensions for an NT Configuration object.

The box on the left side of the screen contains a list of trees that need to be updated.   Select the trees you want to update and then choose **Modify**.

Specifying the User Account as Either Volatile or Nonvolatile

The user account NWGINA creates on the local workstation can be either a volatile or nonvolatile account.

A nonvolatile user account is created when the user logs in.   The account remains in the local Security Access Manager (SAM) after the user logs out and leaves the workstation.   This account is then available for later use independent of the Workstation Manager or network availability.

A volatile user account is not left resident in the local SAM.   When the person using a volatile NT user account logs out of the workstation, NWGINA deletes that account.   This prevents a large number of accounts from accumulating in the local SAM.   This also prevents users from gaining access to the workstation without first authenticating to NDS*.

Check the **Volatile User** check box to create a volatile user.   Leave the check box unchecked to create a nonvolatile user.

The **Volatile User** check box is only available if the **Use IntranetWare* Credentials** check box is checked.   The **Volatile User** check box is automatically checked if the **Use IntranetWare Credentials** check box is not checked.   In other words, a Dynamic Local User with a specified NT username (as opposed to IntranetWare credentials) is automatically a volatile user.

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

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Trusted Trees List

This list contains the names of the trees that are configured as trusted trees.   You can <u>add</u>, <u>remove</u>, and <u>replace</u> the trees in this list.

The Workstation Manager uses Client Configuration information stored in Workstation Manager directory objects in Novell* Directory trees.   When the Workstation Manager is enabled, the list of Secure/Trusted Novell Directory trees must be specified by an Admin user.   The Workstation Manager uses this list of trusted trees for all of its future operations.   The Workstation Manager will search for Workstation Manager NT Configuration objects only in the list of trusted trees.   This security feature prevents non-Admin users from specifying nontrusted trees in the trusted tree list that the Workstation Manager searches to find Workstation Manager NT Configuration objects.

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

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

Parameter: Enable_Workstation_Manager

    Syntax: !Enable_Workstation_Manager = on|off

    Default: off

Overwrite parameter: Enable_Workstation_Manager_OverWriteValue

    Syntax: !Enable_Workstation_Manager_OverWriteValue = yes|no

    Default: no

Example:

    !Enable_Workstation_Manager = on

    !Enable_Workstation_Manager_OverWriteValue = no

UNATTEND.TXT Settings Information

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

Parameter: Preferred_Server

    Syntax: !Preferred_Server = *server name*

Overwrite parameter: Preferred_Server_OverWriteValue

    Syntax: !Preferred_Server_OverWriteValue = yes|no

Example:

    !Preferred_Server = Sales_server

    !Preferred_Server_OverWriteValue = yes

UNATTEND.TXT Settings Information

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

Parameter: Preferred_Tree

    Syntax: !Preferred_Tree = *tree name*

Overwrite parameter: Preferred_Tree_OverWriteValue

    Syntax: !Preferred_Tree_OverWriteValue = yes|no

Example:

    !Preferred_Tree = ACME_Tree

    !Preferred_Tree_OverWriteValue = yes

UNATTEND.TXT Settings Information

This parameter specifies the list of Novell* Directory trees that the Workstation Manager will work with.   Use the following information when setting this parameter in the UNATTEND.TXT file:

Parameter: Workstation_Manager_Trusted_Trees

> **Syntax:** !Workstation_Manager_Trusted_Trees= *tree names*
>
> > **Note:**   If you specify more than one trusted tree, the tree names must be separated by commas and the list must be surrounded by double quote marks.   If you specify only one trusted tree, the quote marks are optional.   (See the example below.)
>
> **Default:** Blank

Overwrite parameter: Workstation_Manager_Trusted_Trees_OverWriteValue

> **Syntax:** !Workstation_Manager_Trusted_Trees_OverWriteValue = yes|no
>
> **Default:** no

Example:

> !Workstation_Manager_Trusted_Trees = marketing
>
> !Workstation_Manager_Trusted_Trees = "marketing, sales"
>
> !Workstation_Manager_Trusted_Trees_OverWriteValue = no

Upgrading the Client Software

To upgrade the client software using Automatic Client Upgrade (ACU) and Workstation Manager

1. Create an ACU login script with the necessary upgrade commands.

2. Open the NT Configuration object using NW Admin NT.

3. Choose **Client Upgrade**.

4. Check the **Enable Automatic Client Upgrade** check box.

5. Specify the ACU login script in the **Alternate Login Script Location** box.

After the NT Configuration object has been configured as indicated, NT workstations are upgraded the next time they use that NT Configuration object.   When NWGINA authenticates to a trusted tree and reads the NT Configuration object properties, it compares time stamps to determine if this is the same object used the last time a login was performed.   If not, NWGINA examines the **Enable Automatic Client Upgrade** check box to see if an upgrade needs to be performed.

Note: If the NT Configuration object was previously configured to perform a client upgrade and nothing was changed other than the text file containing the login script, the upgrade will not be performed.   Modifying the login script itself does not modify the time stamp of the NT Configuration object.   The NT Configuration object itself must be changed in some way.   If it is not, NWGINA cannot know that a new upgrade needs to be performed and the desired upgrade does not take place.   Changing the NT Configuration object to upgrade the time stamp can be as simple as changing the **Description** field in the **Identification** tab of the NT Configuration object.

If the upgrade is to be performed, NWGINA does not create the NT user account indicated in the **Dynamic Local User** page.   Instead, an account that has administrative access to the NT workstation is created.   Once this is done, the login script is started and the workstation client is upgraded.

After the workstation reboots, the user has to enter valid user credentials and log in again.   NWGINA again compares the time stamp of the NT Configuration object with the one previously recorded.   This time the time stamps are identical and NWGINA knows that the client upgrade has already been performed.   NWGINA then proceeds to log in normally and grants the user IntranetWare* and workstation access.

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

Upgrading the Client from the Login Script

Within the login script, the necessary upgrade commands are performed.   These can be as simple as editing the UNATTEND.TXT file and running SETUPNW /U or can contain a more complicated sequence of actions.   For a full explanation of Automatic Client Upgrade (ACU), refer to the Novell* IntranetWare* Client* for Windows** NT** online documentation.

The login script can also be used to upgrade software packages other than those from Novell.   You can run anything that you can normally run from a Novell login script, as detailed in your IntranetWare documentation.

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

Using Novell Workstation Manager

This Help page provides an outline of the steps you take when you use Workstation Manager.   Follow the links for more detail.

1. Install and configure Workstation Manager.

2. Create an NT Configuration object with NW Admin NT.

3. Configure the NT Configuration object you created,   using the Workstation Manager snap-in to NW Admin NT.

4. Associate the NT Configuration object with users, groups, and containers using the Workstation Manager snap-in to NW Admin NT.

Using Workstation Manager to Upgrade the Client Software

One significant advantage provided by the Workstation Manager is the ability to push an IntranetWare* Client* software upgrade to the workstation from a central location.   This is possible with the <u>Automatic Client Upgrade (ACU)</u> feature, which is performed through a login script process.   You can also use this login script to upgrade other software.

ACU worked well for DOS, Windows**, and other nonsecure operating systems because all workstation users had unrestricted access to the local workstation.   Windows NT**, on the other hand, provides for workstation access control and only users who have administrative privileges on the workstation can access and modify the operating system files.   Thus, ACU can be performed only when an administrator-level user authenticates to the workstation. Workstation Manager can create this administrator user upon login and allow the client upgrade to take place.

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

Using Profiles and Policies with Workstation Manager

With user profiles, each user's desktop can be configured with desired colors, shortcuts, cursors, backgrounds, etc. If desired, a network supervisor can also define a mandatory profile which all users are forced to use but are not allowed to alter.   These profiles can be stored on the local workstation or on a network server.

NWGINA and Workstation Manager allow user profiles to be stored on the network, making them available for the user regardless of which physical Windows** NT**   workstation is being used.   The **Workstation Manager Profile/Policy** page is used to define the location of the NT users' profiles and policies.

To enable roaming profile support

1. Check the **Enable Roaming Profile** check box.

2. Specify the location of the profile directory in either the **Windows NT 3.5 Location** field or the **Windows NT 4.***x* **Location** field.

    There are separate fields for Windows NT 3.51 and 4.0 because it is unknown which OS will be used with the NT Configuration object.   Because the profile structure differs between the two operating systems, both options are provided.   The **Browse** button can also be used to find the proper path and filename.

A user's profile can be referenced from the user's home directory as defined in the NDS* User object.   This allows multiple users to be associated with a single NT Configuration object and still allow for individual profiles.   Profiles can also be pulled from a specific location specified by a UNC path.   This allows supervisors to require a group of users using a single NT Configuration object to use a single, predefined profile.

Note: Each user of a profile must have rights to the directory where the profile is located.

Novell* IntranetWare* Client* for Windows NT software supports NT system policies for Windows NT 4.0.   By default, NWGINA looks for a policy file named NTCONFIG.POL in the *preferred server* \SYS\PUBLIC\WINNT directory.   The policies in this file are applied to the workstation during the NT workstation login process.   The Workstation Manager gives supervisors the ability to override this default and causes NWGINA to use a different policy file accordingly.   To use a different policy file, the **Enable Policy** check box needs to be checked and the UNC path and filename for the desired file needs to be entered in the Location field.   The **Browse** button can also be used to find the proper path and filename.

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

The Workstation Manager snap-in to NW Admin NT contains eight pages.   To open a property page, choose an NT Configuration object, then choose the tab for the page you want to use.

You can use eight tab pages to configure the NT Configuration object using NW Admin NT:

Identification

Login Tabs

Login Scripts

Profile/Policy

Welcome Screen

Dynamic Local User

Client Upgrade

Associations