

# WinCenter

Version 3.0  
**Release Notes**

The logo consists of a solid black square with the letters "NCD" in a white, serif font centered within it.

NCD

March 3, 1997

WinCenter Pro 3.0 includes:

- **Administrative Tools** — The WinCenter Administration program group contains:
  - Hot Fix Maintenance Tool — This administrator's tool automates installation of WinFrame Hot Fixes. The tool also queries NCD's FTP site and downloads new Hot Fixes when they are available.
  - Bootp Configuration Tool — Configures bootp startup for NCD network computers booted from the WinCenter server.
  - NIS (Network Information Service) Configuration Tool — Validates users accounts against an NIS password database, creates NT accounts using NIS information, and automounts NIS user's home directories. Version 3.0 includes the ability to use NT user profiles for NIS accounts.
  - WinCenter Configuration Tool — This allows an administrator to:
    - Arrange WinStations into groups.
    - Manage WinStation default settings.
    - Manage permitted methods that users and groups can start WinCenter sessions (XDM, RSH, or telnet).
    - Balance the processing load or user load within a set of WinCenter servers.
    - Enable or disable shadowed WinCenter sessions.
    - Enable or disable encrypted WinCenter sessions.
    - Set up virtual Windows COM ports for Windows NT access to your network computer's serial peripheral device.
- **Universal Desktop Management:**
  - WinCenter Desktop Icon — A tabbed user interface to WinCenter's features. In the WinCenter Desktop Icon you see information about WinCenter and also:
    - Launch remote applications (UNIX, X Windows) that display within the WinCenter desktop.
    - Start a Window Manager to control remote applications within the WinCenter desktop.
    - Encrypt session data.
    - Cut and Paste text and graphics between windows.
    - Shadow other WinCenter sessions for diagnostic purposes.
    - Adjust audio input and output.

## New in This Release

---

- WinCenter WS+ — WinCenter WS+ provides the following capabilities for HP, IBM, Silicon Graphics, and Sun workstations:
  - A chooser window for selecting a WinCenter host and starting a WinCenter session.
  - Audio support for your workstation.
  - The ability to use your workstation floppy drive to read and write Windows NT data.
- WinCenter PC Clients — WinCenter PC Clients provide WinCenter access from personal computers running Windows 3.1, Windows for Workgroups 3.11, Windows NT 4.0/3.51, or Windows 95. The WinCenter PC clients provide:
  - A chooser window for selecting a WinCenter host and starting a WinCenter session.
  - Audio support for your workstation.
- WinCenter servers now report the load and the number of server users in the WinCenter WS+ and WinCenter PC Client chooser window.
- Accelerated MPEG video for NCD HMX network computers is included.
- **NCD Network Computers Quick Start Support:**
  - Boot Support for Explora and HMX network computers.
  - Automated minimal installation of NCDware on WinCenter servers.
  - Support for DHCP, TFTP, and bootp startup methods.
  - Minimal WinCenter server configuration and no NCD network computer configuration needed to boot NCD network computers from WinCenter servers.
- **Updated InterDrive NT NFS** — This optional NFS client is updated to version 2.1.11.
- **Documentation Updates:**
  - The WinCenter WS+ manual is incorporated in the *WinCenter Connect Installation and User's Guide*.
  - The *WinCenter Connect Installation and User's Guide* contains two parts: one for system administrators and one for WinCenter users.

# WinCenter Installation - Overview

**Note** WinCenter Connect 3.0 requires WinFrame version 1.6. The version number is printed on the WinFrame CD, under the CD title.)

- If you are installing WinCenter Connect for the first time, you have received WinFrame version 1.6 in your package.
- If you are a previous WinCenter user, ensure WinFrame version 1.6 is installed before you install WinCenter Connect 3.0. To check which version of WinFrame is currently installed, login to the WinFrame server and in the Program Manager, choose **Help → About Program Manager**.

## Before You Begin

To make WinFrame installation as efficient as possible, make the following preparations:

### Assemble This Software

- WinCenter WinFrame v1.6 CD
- 3.5" WinCenter diskettes:
  - WinFrame Setup Boot Disk, v.1.6
  - WinFrame Server Setup Disk #2, v.1.6
  - WinFrame Server Setup Disk #3, v.1.6
  - WinFrame Base License, v.1.6
- Device drivers diskette supplied by the manufacturer of the network adapter card in the computer you are setting up as a WinFrame server

### Assemble This Information

- TCP/IP configuration information
  - Network name for this server
  - Network address for this server
  - Gateway to be used, if any
- DNS configuration information (if to be used)
  - Domain name
  - DNS servers on your network
- Subnet mask, if different from the default for the class to which your network belongs
- IP addresses for your primary and secondary WINS servers, if any
- Name of the domain to which the WinCenter server you are setting up will belong

- The computer name for the WinCenter server you are setting up. This name should match the TCP/IP network name.
- The type of network adapter card installed in the computer that will be your WinCenter server

### Overview of Installation Process

Installing WinCenter involves performing the following tasks:

1. Install WinFrame version 1.6  
See “Installing WinFrame” on page 5 of these release notes.
2. Install WinFrame Service Pack 5.  
See Chapter 2, “Installing Service Packs” in the *WinCenter Connect Installation and User’s Guide*.
3. Install custom HAL drivers.  
If your WinFrame server is a Symmetric Multiprocessor (SMP) machine, see “Installing Custom HAL Drivers” in these release notes.
4. Install WinCenter Connect.  
See Chapter 3, “Installing WinCenter Connect” in the *WinCenter Connect Installation and User’s Guide*.
5. Install the WinFrame Hot Fixes.  
See Chapter 4, “Installing Hot Fixes” in the *WinCenter Connect Installation and User’s Guide*.
6. Install InterDrive NT.  
If you purchased WinCenter’s optional NFS component, see Chapter 1 in the *WinCenter InterDrive NT Installation and User’s Guide*.
7. Install your Windows NT applications.  
See “Installing and Using Windows NT Applications” in these release notes.
8. If you have PCs that need WinCenter access, install the WinCenter PC Client.  
See Chapter 5, “Installing the WinCenter PC Client” in the *WinCenter Connect Installation and User’s Guide*.
9. If you have UNIX workstations that need WinCenter access, install WinCenter WS+.  
See Chapter 6, “Installing WinCenter WS+” in the *WinCenter Connect Installation and User’s Guide*.

## WinFrame Installation Steps

The following instructions guide you through a typical installation scenario. At several points in the process, you have choices that, if exercised, introduce additional or different steps from those shown below. For in-depth installation instructions, see Chapter 2 of the *WinCenter WinFrame Installation Guide*.

**Note** The status bar at the bottom of WinFrame Installation screens display shortcut keys to perform various actions. Among these appear the following two:

- ESC=cancel  
Means “Dismiss this screen, and do not apply any of its settings.”
- F3=exit  
Means “Abort the installation program altogether.”

## Phase 1 of WinFrame Installation

1. If the computer does not have an existing installation of WinFrame, skip to Step 2.
  - If the computer does have an existing installation of WinFrame, decide whether you want to simply upgrade it with a newer version, or overwrite it with a fresh installation (the scenario reflected in these instructions). Upgrading has the advantage of preserving existing accounts and optional settings. A fresh installation might be appropriate if you suspect the existing installation is corrupted, or you want to completely revamp it, including the user data.
  - If you plan to create a fresh installation, or perform any task that could change WinFrame’s configuration (such as installing new hardware, service packs, or Hot Fixes), first remove any existing WinFrame licenses. This prevents any users from logging on to the server while you are re-installing or modifying the operating system.
- a. Start the computer under the existing WinFrame installation.
- b. Login as Administrator.
- c. In the Program Manager, open the Administrative Tools group.
- d. Double click the *WinFrame Licensing* icon.
- e. Select the license(s) listed in the **WinFrame Licensing** window.
- f. Press the Delete key on your keyboard.

- g. As instructed by the resulting dialog, insert the WinCenter WinFrame Base License diskette in the specified floppy drive, then click OK. A warning dialog appears.
- h. On the warning dialog, click OK.
- i. When the WinFrame Licensing window does not list any licenses, remove the WinCenter WinFrame Base License diskette from the floppy drive.

For detailed information about installing and removing licenses, see Chapter 2 in the *WinCenter WinFrame Installation Guide*.

2. Make sure the computer is turned off. Insert the WinCenter WinFrame Setup Boot Disk in the floppy drive, then turn on the computer. The WinFrame Setup screen appears, and the setup program loads files for a couple of minutes.
3. When prompted, insert the WinCenter WinFrame Server Setup Disk #2, then press Enter. **Setup** takes a couple of minutes to load these files. Wait for the Welcome to Setup screen to appear.
4. On the Welcome to Setup screen, press Enter to start installing WinFrame.
5. On **setup's** installation method screen, press <C> for Custom Setup. (This ensures you will be able to configure WinFrame for any type of hardware device your system may use.)

The next screen offers the following choices:

- Press Enter to let the **setup** program automatically detect your computer's mass storage devices. **Setup** can detect floppy disk controllers and hard disks. (If you have storage devices not detectable by **setup**, you will be informed, so you can specify them manually.) The following steps assume you select this option. Go on to Step 6.
  - Press <S> to skip automatic detection and go directly to manually specifying the mass storage devices. This is an appropriate choice if the computer has SCSI adapters, CD ROM drives and special disk controllers, because the **setup** program cannot detect them automatically. Go to Step 6a.
6. When prompted, insert the WinCenter WinFrame Server Setup Disk #3, then press Enter. **Setup** takes about a minute loading device drivers.

The next screen lists the names of mass storage devices setup has detected.

- If you do not want to specify any additional mass storage devices, press Enter, and skip to Step 7.
- If the screen displays <none> as the devices found, or if you want to specify additional mass storage devices besides those listed, be sure you have your hardware manufacturer's diskette containing the correct device drivers, then do the following:
  - a. Press <S>. The WinFrame Server Setup screen appears.

- b. Select Other, then press Enter. (The Other choice appears at the bottom of the list of drivers; use the down arrow key to scroll down to it, if necessary).
  - c. Remove the WinFrame Server Setup Disk #3 from your floppy drive, insert the manufacturer's device driver diskette, then press Enter. The next screen lists the device drivers found on the manufacturer's diskette.
  - d. Using the arrow keys, select a device driver you want to install, then press Enter. The selected driver is loaded and the screen that lists detected devices reappears, listing the device whose driver you just installed.
  - e. If you have other mass storage devices you want your computer to recognize, go back to Step 6a., and repeat the process. Otherwise, if you are satisfied with the devices detected, press Enter.
  - f. Re-insert the WinFrame Server Setup Disk #3 into your floppy drive, then press Enter.
7. If a version of WinFrame does not reside on the computer, go to Step 8.

If a version of WinFrame does reside on the computer, you are offered the following choices:

- Press Enter to upgrade the existing version with the version you are installing, preserving the configuration settings and user data set up under the previous installation.
- Press <N> to install an entirely fresh version of WinFrame.

Make the selection that reflects the decision you made in Step 1, that is, whether to upgrade an existing installation or to make a fresh installation to overwrite an existing installation. Upgrading has the advantage of preserving existing accounts and optional settings. A fresh installation might be appropriate if you suspect the existing installation is corrupted, or you want to completely revamp it, including the user data. (The steps below assume you are performing a fresh installation, and have pressed <N>.)

8. Check the hardware settings currently specified for your computer as displayed on the screen. If they are incorrect, follow the instructions on the screen to adjust them. When the description on the screen matches your computer, press Enter.
9. When prompted, select the partition in which to install WinFrame.
  - If only one partition is listed, press Enter.
  - If more than one partition is available, use the arrow keys to choose one in which to install WinFrame, then press Enter. (You can also choose to create or delete partitions from this screen.)

10. When prompted, select the desired file system type (or to leave the current system intact), then press Enter.

WinFrame supports both FAT and NTFS file systems. FAT is the standard DOS file system type. NTFS is specific to the NT operating system and provides faster performance than FAT on NT systems. Note that a FAT file system can be converted to an NTFS system, but the reverse is not true. If you are unsure about which file system to choose, select the NTFS file system.

If you choose to change the existing File System, the next screen warns you that this will format your hard disk (or the partition you selected in Step 9), erasing all of its existing data; at this point you can choose a different partition if you want.

To proceed with formatting the disk, press <F>. This takes about ten minutes, so you might use this interval to do something else.

11. When prompted, specify the directory on your hard disk where you want WinFrame installed. The default is in the **WINFRAME** directory at the root level of the selected partition on the hard drive. When satisfied with the location, press Enter.
12. When prompted whether to perform an exhaustive examination of the hard disk(s), press Esc to skip it.
13. When prompted to insert the WinFrame Server CD ROM, insert the CD labeled "WinCenter WinFrame v.1.6", then press Enter.

If you manually specified mass storage device(s) in Step 6, insert the manufacturer's device drivers diskette and press Enter.

The **setup** program copies files from the CD (and the drivers diskette, if present) to your hard disk. This takes a few minutes. Then a screen informs you that the first phase of the setup program is complete.

### Phase 2 of WinFrame Installation

14. Remove any diskette that is in the floppy drive, then press Enter to restart the computer. Do NOT respond to any prompts that might appear as the DOS operating system loads. Wait for the WinFrame Setup screen to be displayed.
15. When prompted, enter your name and company name, then click Continue. On the following screen, verify that you entered this information correctly and, when satisfied, click Continue.
16. When prompted, insert the WinCenter WinFrame Base License disk in your floppy drive, then click OK.
17. When asked for a WinFrame Server Option Pack, click Cancel if you did not purchase the Server Option Pack. Go to step 18.

If you did purchase the Server Option pack, insert the WinCenter WinFrame Server Option Pack disk in your floppy drive:

- a. In the **WinFrame Server Security Role** dialog, select Server and click Continue.

- b. Click OK.
  - c. In the **Choose Licensing Mode** dialog, select the desired method for assigning licenses and click Continue. Note that we recommend that you choose the Per Seat licensing mode. The Per Seat licensing mode is often the most economical one for networks in which clients tend to connect to more than one server.
  - d. In the **Per Server Licensing** dialog, select to Agree with the license and click OK.
18. When prompted, type in a name by which to identify this computer in your network, then click Continue. Verify the name was entered correctly, then click Continue.
  19. When prompted, select the language for your region, then click Continue.
  20. When prompted to select the tasks to be performed, check the following tasks:
    - *Set Up Only Windows Components You Select*
    - *Setup Network.*Be sure all other tasks are unchecked, then click Continue.  
(You can set up printers and/or applications later, if you want. To see how, in WinFrame Books Online, see “Setting Up Applications to Run from Program Manager” in Chapter 1, and “Creating Printers on a Server” in Chapter 7.)
  21. When prompted, choose which optional Windows components to install. By default, they are all selected.
    - To install all optional windows component, click Continue.
    - To install particular components, uncheck the boxes for components you do not want to install. If you want to choose particular files to install, click the Files button next to the component. The next screen lists the files for that component and lets you specify which files to include in the installation. When satisfied with your choices, click Continue.
  22. A sequence of dialogs guides you through the process of setting up your network card:
    - a. When prompted to automatically detect the network adapter card in this computer, click Continue.
    - b. When prompted to use the detected network card, click Continue.
    - c. When prompted to confirm the network adapter card settings, click Continue.
    - d. When warned that the network parameters cannot be verified, click OK.
    - e. Check TCP/IP Transport and uncheck the other protocols (unless your network setup requires that you use one of the other protocols). Then click Continue.
  23. Leave both Gateway Services for Netware and Multiport adapter unchecked. Click Continue.

24. Check all the components in the Windows NT TCP/IP Installations Options table.  
However, do not check Enable Automatic DHCP Configuration (the check box near the bottom of the dialog). Click Continue.
25. Leave the **SNMP Service Configuration** dialog empty and click OK.
26. When warned of password vulnerability under File Transfer Protocol, click Yes to proceed with the installation.
27. Leave the **FTP Service** dialog entries unchanged and click OK.  
**Setup** copies a number of files to your hard disk.

**Note** This takes between 5 and 10 minutes.

28. When prompted if you want Dial-In Support, if you do not have a modem attached to this computer or if you do not know what type of modem you have connected to this computer, select No. After installation, you can install Dial-In support using the **Dial-In Setup Wizard** found in the Administrative Tools group.  
  
If you do know your type of modem, select Yes. The **Dial-In Setup Wizard** appears. Click to highlight the COM port to which the modem is attached and click Next. In the next screen, click Choose to display a dialog with a list of modem types. Scroll the list of modem types and click to highlight the type of modem attached to the computer. Click OK. Click Next, then click Next again, then click Finish.
29. When prompted if you want to install additional network adapters or software:  
  
If you choose to install additional network components, you might be asked to insert additional disks supplied by the component manufacturer. For information about completing the options in this Network Settings dialog box, click Help.  
  
If you do not desire to install additional network components, click OK to close the **Network Settings** dialog and proceed with the installation.
30. When prompted, enter the correct network information in the TCP/IP Configuration dialog.  
  
The information you enter includes:
  - IP address. This is the IP address for your WinFrame server.
  - Subnet mask. This is the subnet mask value for your network.
  - Default gateway. This specifies the IP address of the default gateway (or IP router) used to forward packets to other networks or subnets. This is the IP address of your local gateway. This value is required only for nodes on internetworks. If you don't enter a value here, IP functionality is limited to the local subnet unless a route is subsequently specified with the TCP/IP route command.
  - Primary and secondary WINS servers. To use Windows Internet Name Service (WINS) as well as name query broadcasts to resolve computer names to IP

addresses, enter the IP addresses for the primary and secondary WINS servers in these boxes.

If a WINS server address is not entered, TCP/IP uses name query broadcast plus the local LMHOSTS file to resolve computer names to IP addresses.

For more information about these dialog boxes, see Chapter 4 of the *WinFrame Installation Guide*.

- If you are using DNS, select the DNS button. Here you need to enter the Host Name for the server, the DNS Domain Name, and the DNS Search Order. When all information is correct, click OK to return to the **TCP/IP Configuration** dialog.

When all information is correct in the TCP/IP Configuration dialog, click OK.

The **setup** program displays a dialog, informing you that it is starting up the network.

31. When the **Domain/Workgroup Settings** dialog is displayed, click OK to accept the default settings. For now, let this computer remain a member of “WORKGROUP”, and leave Domain blank.

You can join a domain later, if you want to. To see how, in WinFrame Books Online, see “Changing the Name of a Domain” in Chapter 5.

You see several sets of program groups being created.

32. When the **Administrator Account Setup** dialog is displayed, enter a password for the Administrator account in both text entry boxes, then click Continue. Note that the word, “Administrator” is automatically supplied as the user name for this account.
33. When prompted to setup local users:
  - To set up a local user now, in the **Local Account Setup** dialog, supply the user name, and, optionally, a password in the two password boxes. Then click Continue. This creates a local user account that has Administrator privileges.
  - You do not have to set up a local account now; you can do so later by means of the **User Manager** icon in the Administrative Tools program group.
34. When the **Virtual Memory** dialog is displayed, accept the recommended size, or make it larger (but never smaller), then click Continue. This specifies a hard drive location and size for a paging file used in memory management.
35. In the **Date/Time** dialog, set the proper date, time and time zone, then click OK.
36. A sequence of dialogs let you test and adjust the display settings:
  - a. In the **Detected Display** dialog, click OK.
  - b. At the lower right of the **Display Settings** dialog, click Test. You should test even if you did not change any settings.
  - c. On the Testing Mode message, click OK. A color test pattern is displayed for several seconds, then returns you to the dialog. If the appearance of the test pattern is acceptable, click Yes in the next message box.

- d. When prompted to save the current display settings, click OK.
  - e. On the **Display Settings** dialog, make any adjustments you want to the display settings, such as color palette or desktop area. When satisfied with the settings, click OK.  
If you have changed the settings without then testing them, you will be prompted to test the new settings.
37. On the **WinFrame Setup** dialog, select No, so that drive letters are not changed.
  38. If an error message appears about your floating-point processor, click Yes.
  39. When prompted, insert the Base License disk into your floppy drive and click OK. Winframe installs your base license.
  40. Click OK to accept the licenses.
  41. Answer No to the request to install another WinFrame License Pack. **setup** saves your configuration information. This takes a few minutes.
  42. Remove the license diskette and store it in a safe place.
  43. Answer Yes to create an emergency repair disk. Label and insert a diskette in the floppy drive, then click OK. Files required for repair operations are copied to the diskette. Upon completion, remove the diskette from the floppy drive and store it in a safe place.
  44. When notified that WinFrame Server is now installed, remove the WinCenter WinFrame CD from the CD drive and store it in a safe place.
  45. Click the *Restart Computer* button to reboot the computer and activate the settings you made during installation.
  46. To continue the WinCenter installation, insert the WinCenter Connect CD, and follow the instructions in Chapter 2, "Installing Service Packs" in the WinCenter Connect Installation and User's Guide.

## Logging In as Administrator, Logging Off, and Shutting Down

To login as system administrator:

1. Power on or restart the WinFrame server. The following occurs:
  - a. A series of messages is displayed in DOS mode as the computer performs system checks and loads software into memory. You do not need to do anything.
  - b. The WinFrame title screen displays, reflecting the name you assigned this computer during WinFrame installation.
2. Press Ctrl+Alt+Del. The login dialog displays.
3. In the login dialog, enter the user name “Administrator”, and the password you specified for the Administrator in the WinFrame Installation procedure (Step 32 on page 11).

To log off:

1. In the Program Manager’s File menu, select Logoff. The **Logoff Windows NT** dialog appears.
2. In the logoff dialog, click OK. You are returned to the WinFrame title screen.

To shut down the WinFrame server:

1. In the Program Manager’s File menu, select Shutdown.
2. In the **Shutdown Computer** dialog, do one of the following:
  - To shut down the computer and turn it off, select *Shutdown*, then click OK. The computer writes needed data to disk, then displays a message that it is safe to turn off the computer (or restart it).
  - To shut down and automatically restart the computer, select *Shutdown and Restart*, then click OK. The computer writes needed data to disk, then begins the startup process.

### Manual Correction

In the *WinCenter WinFrame Installation Guide*, Chapter 2, “Setting Up Master Files on a Server” is incomplete. In addition to the files that section instructs you to copy to the network computer, you should also copy the **\DRVLIB** directory. This directory contains additional network drivers that may be required depending on your hardware configuration. The revised procedure is:

- Method 1:
  - Place the WinFrame compact disk in a CD drive connected to a network computer. Share the root directory of the CD drive.
- Method 2:
  - a. Connect to the drive where you want to install the WinFrame master files.
  - b. Create the shared directory on the drive that will contain the WinFrame master files. Create the following directories for the master files in the shared directory:

**I386**

**DRVLIB\NETCARD\X86**

3. In Program Manager, choose the Command Prompt icon. Then use the `xcopy` command to copy the WinFrame master files to the shared directories you created. The correct syntax is the following:

```
xcopy /s cdrom:\i386 share_directory\i386
```

```
xcopy /s cdrom:\drvlib\netcard\x86  
share_directory\drvlib\netcard\x86
```

For example, if drive F is your CD drive and `\\WINNT35.SRC` is your shared directory for the WinFrame master files, type the following commands:

```
xcopy /s f:\i386 winnt35.src\i386
```

```
xcopy /s f:\drvlib\netcard\x86 winnt35.src\drvlib\netcard\x86
```

## Installing Custom HAL Drivers

If your WinFrame server is a Symmetric Multiprocessor (SMP) machine, the Hardware Abstraction Layer (HAL) driver provided by the machine's manufacturer is preferred over that provided by WinFrame.

Because Service Pack 5 removes custom HALs, install the HAL for your system after installing Service Pack 5.

For further information about HALs or your SMP machine, double click the **WinFrame Help** icon in the Main program group. Then select the *WinFrame Solutions Guide* listed on the Contents tab.

# Installing and Using Windows NT Applications

**Note** For further information about installing applications, double click the **WinFrame Help** icon in the Main program group. Select the Contents tab. Select *IMPORTANT! READ ME FIRST!* Then select *General Installation of Applications on WinFrame*.

To install Windows NT applications on the WinCenter server:

1. At the WinCenter server console, log on as Administrator.
2. Ensure that no other users are logged on. To see who is logged on, select **Administrative Tools → WinStation Administration → View → Users**.
3. From Program Manager, select **File → Run**.
4. Enter `change user /install` and press OK.
5. Follow the installation instructions to install your Windows NT applications.
6. When finished installing applications, select **File → Run** from Program Manager.
7. Enter `change user /execute` and press OK.

## Closing NT Applications

Do not use the Alt+F4 key combination to close Windows NT applications running on your NCD network computer. Alt+F4 is sent to by your NCD network computer window manager to WinCenter. You'll then see a prompt asking if you want to log off WinCenter.

To have Alt+F4 sent to your NT application and not WinCenter:

- turn off your NCD network computer's window manager and use the WinCenter window manager (**WinCenter Desktop Icon → Desktop → Start Window Manager**), or
- reconfigure your NCD network computer window manager. Change the association it has between Alt+F4 and Close. Refer to your window manager's man page for specifics on how to reconfigure the window manager.

WinCenter's Network Information Service (NIS) provides various capabilities related to the administration of network databases. Further information is located in Chapter 8 of the *WinCenter Connect Installation and User's Guide*. Some things to note about NIS include:

- **NIS Configuration Tool:**  
The NIS Configuration tool is located in the WinCenter Administration program group. It appears only to administrator users.
- **Logon Management:**  
User accounts are validated against an NIS password database. Accounts validated this way are called NIS accounts.
- **Controlling NIS accounts:**
  - The home directory drive specified for NIS accounts is global, not per user.
  - When using AMD format mount maps, wildcards and conditionals are not supported.
  - Home directory automounting:  
The NIS Configuration tool allows these choices for managing NIS users' home directories:
    - Local path  
The NIS user's home directory is set to the specified local path.
    - Network path (explicit)  
The NIS user's home directory is mounted on the specified drive letter and set to the specified network path.
    - Network path (implicit)  
The NIS user's home directory is mounted on the specified drive letter and set to the network path derived from the NIS password database and mapped through the NIS automounter database. The automounter database may be in either Sun or AMD format. Note that this functionality requires that the InterDrive NT NFS client is installed and running.
    - ASCII file automount databases are not supported.
    - The *+mapname* include map filename syntax is not supported in automount database map files.
    - The */-mapname* syntax in automount databases must not have any extra characters or whitespace following *mapname*.
    - If you change NIS using the **NIS Configuration** tool from a non-console device, you must log on and log off the console before the changes take effect.

- Changing NT accounts to NIS accounts — If you have existing NT accounts that you want to manage with NIS:
  1. In the Administrative Tools program group, double click the **User Manager for Domains** icon.
  2. Select the user accounts you want NIS to manage by:
    - using <Shift> + <Left mouse button> to select multiple consecutive users,
    - using <Ctrl> + <Left mouse button> to select multiple non-consecutive users,  
or
    - **User → Select Users** to select groups of users.
  3. Select **User → Properties**.
  4. Set the Description field to *NIS account*, then click OK.

When using InterDrive NT, you must correctly configure the *Authentication Server* on the Security tab in the **InterDrive Client Properties** dialog. If you don't configure it correctly, a PCNFSD error can occur, which only the administrator can correct.

There is a known problem with NFS printing in this version of InterDrive NT. Use “Client Network”, “Microsoft Network” or local printing methods instead.

InterDrive NT will not use LMHOSTS to resolve names into IP addresses. Please configure DNS on your WinCenter server.

# About WinFrame 1.6

## Hardware Compatibility Information

For information on hardware compatibility and guidelines for configuring your WinFrame server, refer to the Microsoft Windows NT 3.51 Hardware Compatibility List. This list can be obtained by downloading the following file from Microsoft's FTP site (ftp.microsoft.com):

**bussys/winnt/winnt-docs/hcl/HCL351**

The Hardware Compatibility List is available online in the Main program group after WinFrame has been installed.

## Additional Information

The **SETUP.TXT** file in the **\I386** directory on the WinCenter WinFrame CD contains additional information from Microsoft regarding Windows NT 3.51. This information is also applicable to WinFrame, since WinFrame is based on NT 3.51. You may need some of this information prior to installing WinFrame.

These release notes contain condensed WinFrame installation instructions.

## Online Information

After installing WinFrame, the Main program group contains WinFrame Books Online. All the WinFrame manuals, except the *WinFrame PC Client User's Guide*, are online. WinFrame Books Online requests your WinCenter WinFrame CD. If you would like to access the books without having your WinFrame CD in the drive, copy the files from the **\SUPPORT\BOOKS** directory on the CD to a **\SUPPORT\BOOKS** directory on your hard drive.

The Main program group also contains a **WinFrame Help** icon. Select this icon to get topical help about WinFrame.

## WinFrame Restrictions

- **Novell NetWare 4.x NDS Support** — NDS-aware applications (e.g. *nwadmin* and *netadmin*) are not supported at this time. However, these utilities can be run from a network workstation running DOS or Windows 3.x, or a remote workstation connected to WinFrame RAS using the Dial-Up Manager supplied with WinFrame DOS and Windows 3.1 Clients or a third-party RAS package. This allows administration of NetWare 4.x servers from a remote DOS or Windows 3.x workstation. Refer to the Readme “Remote NetWare 4.x Administration Using NETADMIN and NWADMIN Over a RAS Connection” in WinFrame Help for detailed information. NDS drive map objects are not supported; use direct drive assignments to a volume and directory path instead.
- **Password Synchronization with NetWare 4.x NDS File Servers** — Password synchronization with NetWare 4.x NDS servers is not supported at this time; however, password synchronization with NetWare 4.x servers running Bindery Emulation is supported.

# Using WinCenter

## NCDWare:

- If you reinstall NCDware on your WinCenter server, the existing `ncd_std` file in the `\tftpboot\usr\lib\X11\ncd\configs` directory is copied to `ncd_std.old`.

## WinCenter WS+:

- Solaris Volume Manager — When the Solaris Volume Manager manages the Solaris workstation's floppy drive, the Solaris File Manager opens a window on the workstation screen when the diskette is initially inserted in the drive and accessed from WinCenter. To prevent this window from appearing, turn off the Solaris Volume Manager or configure it so that it does not manage the workstation floppy drive. For further information, see your Solaris documentation.
- Using Non-default Floppy Devices — To use a different floppy device than those listed on page 6-3 of the *WinCenter Connect Installation and User's Guide*, use the `-devfloppy` option or set the `WINCENTER_DEV_FLOPPY` UNIX environment variable. The `-devfloppy` option is explained in Appendix A of the *WinCenter Connect Installation and User's Guide*. Set the `WINCENTER_DEV_FLOPPY` environment variable as follows:

```
setenv WINCENTER_DEV_FLOPPY floppy_device_path (C shell)
```

or

```
WINCENTER_DEV_FLOPPY floppy_device_path (Bourne or K shell)  
export WINCENTER_DEV_FLOPPY
```

For example:

```
setenv WINCENTER_DEV_FLOPPY /dev/fd1
```

or

```
WINCENTER_DEV_FLOPPY /dev/fd1  
export WINCENTER_DEV_FLOPPY
```

## WinCenter PC Clients:

- Floppy Drive Support — Contrary to statements in the *WinCenter Connect Installation and User's Guide*, floppy drive support is not available in this release of the WinCenter PC Clients. You cannot, therefore, write WinCenter data to the floppy drive of your WinCenter PC Client personal computer.
- Removing WinCenter Chooser Entries — You can delete a WinCenter server entry that you added to the *WinCenter Server List* if you are using the PC Client on Windows 95, Windows NT 4.0, or Windows NT 3.51. To delete a server entry that you have added, select the entry in the *WinCenter Server List* and then press the Delete key.

### **Bootp Configuration:**

When bootp starts, an informational message incorrectly appears as an error in the **Administrative Tools → Event Viewer** log. That error appears as:

```
bootp error: 0, version 2.3.7
```

and can be disregarded.

### **Shadowed Sessions:**

- Graphics cut and paste (**WinCenter Desktop Icon → Select Graphics Cut-and-Paste Area**) does not work in a shadow session.
- Audio is not supported in shadow sessions.





Network Computing Devices, Inc.  
350 North Bernardo Avenue  
Mountain View, CA 94043-5207  
Telephone: 503/641-2200  
FAX: 503/641-2959  
Email: [support@ncd.com](mailto:support@ncd.com)  
World Wide Web: <http://www.ncd.com>

9300490

