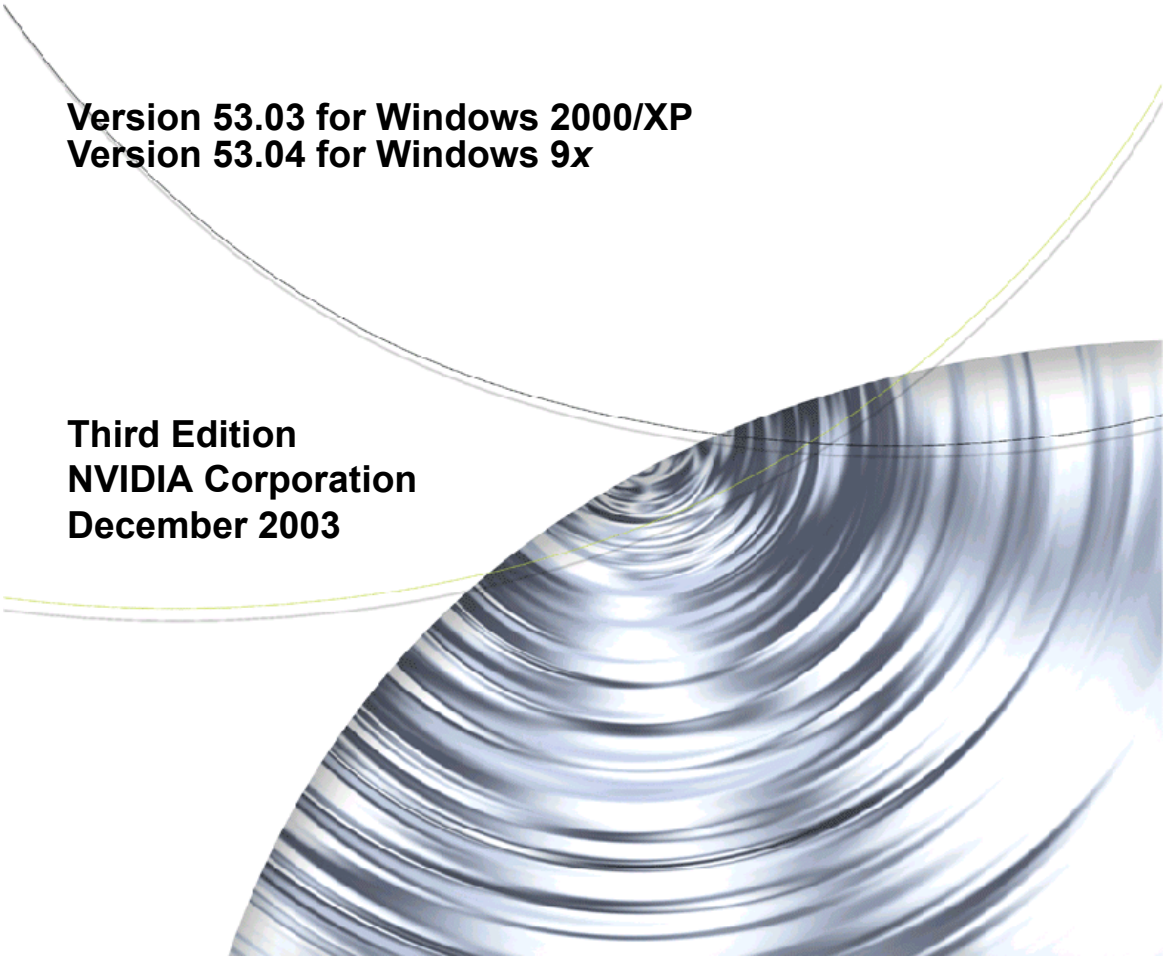
# ForceWare Graphics Drivers
# nView 3.0 Desktop Manager
# *User's Guide*

**Version 53.03 for Windows 2000/XP**
**Version 53.04 for Windows 9*x***



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CHAPTER 1

# INTRODUCTION

The following major topics are discussed in this chapter:


- "About this Guide" on page 1
- "nView Components: Display Properties and Desktop Manager" on page 2
- "Why Do I Need Desktop Management?" on page 3
- "About nView Desktop Manager" on page 4
- "Key Terms and Concepts" on page 8
- "Features and Benefits" on page 11
- "Application Compatibility" on page 18
- "Notes on Feature and Configuration Support" on page 19
- "Examples in this Guide" on page 21


## About this Guide

This is a *user's guide* addressed to end users of the NVIDIA® nView™ Desktop Manager application, which is a component of the NVIDIA ForceWare™ graphics drivers. nView Desktop Manager is a desktop and application management tool that runs on Windows operating systems and graphics cards based on NVIDIA **graphics processing units (GPUs)**.

**Note:** Supported NVIDIA GPUs are listed in Table 2.5. For technical details on the features and benefits of the NVIDIA ForceWare graphics driver, refer to the NVIDIA Web page: **www.nvidia.com**.

## Other Related Documentation

- If you are primarily using the *display properties* components of the NVIDIA ForceWare graphics drivers with NVIDIA **GeForce™-based** GPUs, see the following user's guide:

  *NVIDIA ForceWare Graphics Drivers User's Guide*

- If you are primarily using the *display properties* components of the NVIDIA ForceWare graphics drivers with NVIDIA **Quadro®-based** GPUs, see the following user's guide:

  *ForceWare Graphics Drivers: Quadro Workstation User's Guide*

- The documents titled *NVIDIA Drivers for Windows: Release 50 Notes* describe performance improvements and bug fixes in the ForceWare graphics drivers. These documents enable **add-in-card (AIC)** producers and **original equipment manufacturers (OEMs)** to monitor performance improvements and bug fixes in the driver.

# nView Components: Display Properties and Desktop Manager

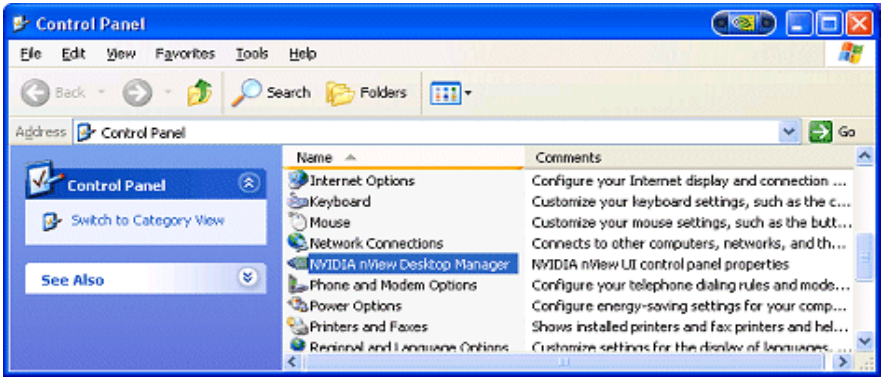
The NVIDIA ForceWare graphics driver software includes two user interface-based components: *nView display properties* **and** *nView Desktop Manager*.

- **nView** represents a collection of multi-display technologies encompassing driver support, multi-display GPU architecture, and desktop management support.
- **Display properties** refers to the NVIDIA Windows Control Panel-based user interface, which you can access from the Windows **Display Properties** > **Settings** > **Advanced** option. Once you click the NVIDIA GPU tab name, a menu appears from which you can configure the advanced display properties of the current release of the NVIDIA ForceWare graphics driver software.
- The primary nView component is the **Desktop Manager** (the topic of this *user's guide*), which is a user level application utility that focuses on making you more productive when working on your Windows desktop. Desktop Manager was originally created for multi-display graphics cards but has grown to enhance single-display user desktops as well. Desktop Manager supports both single-display and multidisplay configurations running with single-display, multi-display, or multiple graphics cards based on NVIDIA GPUs.

As with the *display properties* component, now you can also access the nView Desktop Manager control panel and configure its features from the Windows **Display Properties** > **Settings** > **Advanced** option.

Desktop Manager is also a separate item on the Windows Control Panel group (Figure 1.1). You can click this item to access the nView Desktop Manager control panel. There are several additional ways to enable the nView Desktop Manager control panel to configure its various features. For complete details, see "Accessing and Enabling the nView Desktop Manager Control Panel" on page 59.

**Figure 1.1** Windows Control Panel with nView Desktop Manager Item




# Why Do I Need Desktop Management?

As users run more and more applications and process even more information, their screen sizes are getting larger and larger. Larger screen area simply makes users more productive.

One of the more cost effective and common ways of increasing screen area is to use multiple displays and/or multiple desktops (for single-display users), which allow you to place your applications on multiple displays having ready and immediate access to the information they contain.

While large screens and multiple displays and desktops are a great way of increasing your visible work area, these larger desktops start becoming more difficult to manage. Once simple operations such as finding your mouse cursor or even a window can become very time-consuming when you have to hunt through several screens.

In addition, using multiple displays results in additional issues such as the screen split between two displays – windows that are placed on this screen split are extremely difficult to read. So, while larger desktop areas promise to dramatically increase your productivity, there are user interface issues that can make it difficult to use at times.

A “desktop manager” manages your large desktop and takes care of many of the user interface issues that result from moving to a larger desktop area. You can think of a desktop manager as being an extension of the windows user interface tailored for large desktops.

# About nView Desktop Manager

nView Desktop Manager supports both single-display and multi-display configurations running with single-display, multi-display, or multiple graphics cards based on NVIDIA GPUs.

## Multi-Display Support

The nView Desktop Manager feature set primarily focuses on multi-display use by workstation users in finance, corporate, digital content creation (DCC) and similar organizations as well as in the mobile (laptop) markets. Therefore, to take advantage of the full feature set of the Desktop Manager, you need a multi-display configuration. With multiple displays, you can view a single application as a large window stretching across several displays, or you can display different applications on each monitor. Using a multi-display configuration is an efficient and cost-effective way to increase the size of your computer display area, commonly called the “desktop”.

## Single-Display Support

nView Desktop Manager is designed for broad applications across the wide range of NVIDIA product lines and markets. Therefore, single-display users can also take advantage of many of its features. Although you cannot use multi-display features in a single-display configuration, you can create multiple desktops and use hot keys, NVKeystone, and windows effects.

## Release 50: Access Options for the nView Desktop Manager Control Panel

**Note:** Starting from this current release (Release 50) of the ForceWare graphics drivers, all nView Desktop Manager features accessible from the nView Desktop Manager control panel are also accessible from the NVIDIA display properties menu, shown in Figure 1.2.

In the previous Release 40 NVIDIA graphics drivers, the nView Desktop Manager control panel was a standalone user interface with feature-specific tabs to access a variety of configurable Desktop Manager options.

In the current Release 50 NVIDIA graphics driver, the nView Desktop Manager control panel can be opened as a standalone user interface *and* accessed from the NVIDIA display properties menu because the Desktop Manager control panel options have also been integrated into the NVIDIA display properties control panel menu (Figure 1.2).

Once nView Desktop Manager is enabled, its control panel is easily accessible from a variety of areas on your desktop, as explained in "Accessing and Enabling the nView Desktop Manager Control Panel" on page 59, For example, it is available from:

- the Windows Control Panel group
- the desktop (right click) properties menu
- the NVIDIA Settings taskbar icon
- the NVIDIA display properties control panel menu

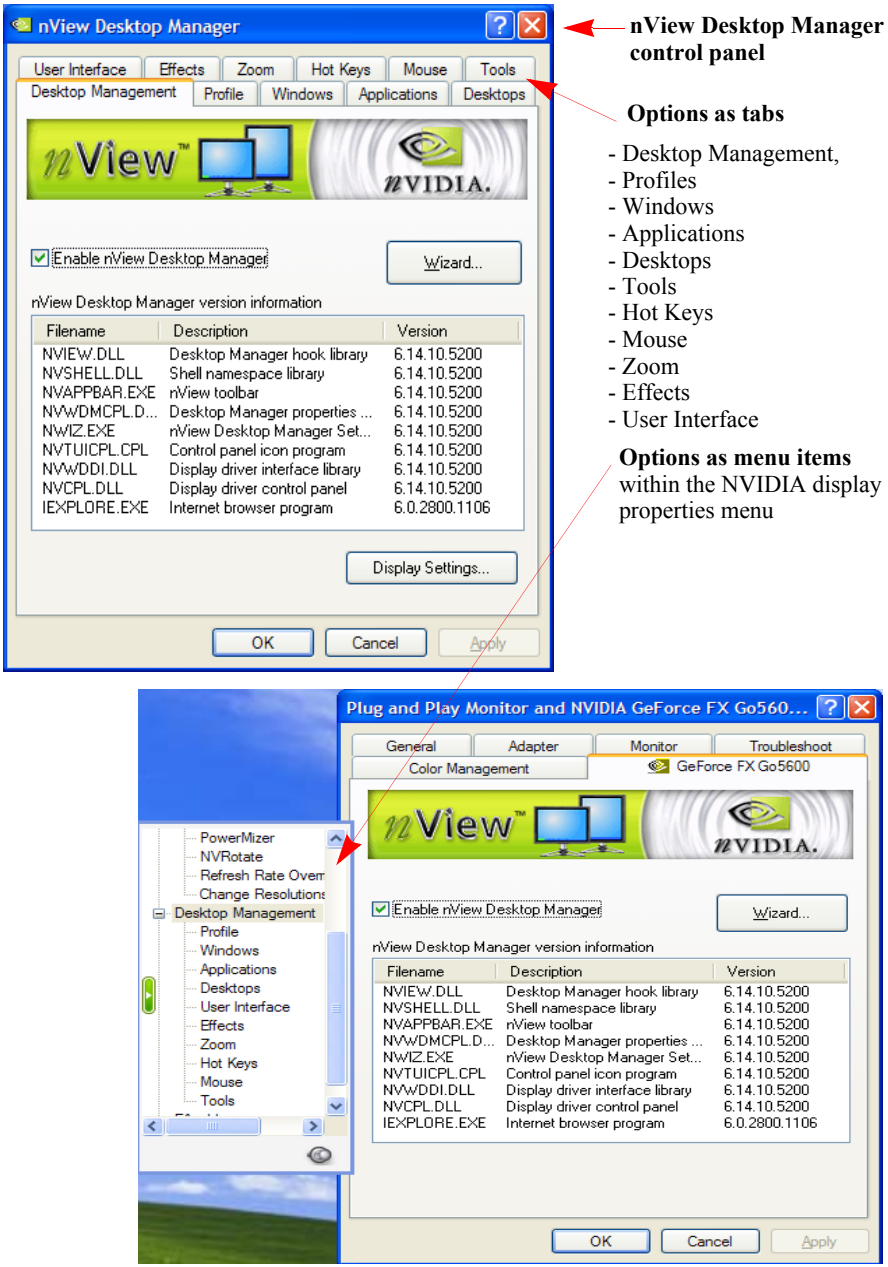
When you *first* open the nView Desktop Manager control panel, the default **Desktop Management** tab is displayed. Once you enable the Enable nView Desktop Manager option, the remaining tabs (or menu items) are available and configurable, as described in "Features and Benefits" on page 11.

**Note:** Individual chapters in this guide describe the various categories of features to configure.

## Release 50: New Features and Support

- **nView toolbar** lets you dock hot keys and other actions — such as desktop switching, mode switching, and profile loading — on a toolbar for easy access.
- **Profiles** can store and load the open application state.
- **Kinematic mouse actions** such as switching to the next or previous desktop can be accomplished by specific mouse movements such as shakes or circular motions. Mouse features also include throw-action detection for a more interactive "movie style" user interface.
- **Resolution per desktop support** allows each desktop can be set to a different resolution.
- **Microsoft Internet Explorer pop-up prevention**
- **Monitor grids** allows display devices to be divided into subgrids, which—for the purposes of geometric operations such as application window maximizing—act as separate display devices.
- **NVKeystone™ luma compensation**

**Figure 1.2** nView Desktop Manager Properties: Tabbed Control Panel vs. Menu Style




- **Application display exclusions and inclusions** allows the user to set up applications to always launch on a specified monitor, or never launch on a specified monitor.

# Release 50: Performance Improvements and Enhancements

- **Desktop switching** speed has increased by 40%.
- **Integrated control panels --** The nView Desktop Manager control panel is now consolidated with the NVIDIA display properties control panel.
- **New nView Desktop Manager Setup Wizard** includes mode set support for nView Standard, Clone, Spanning, and Dualview modes.
- **Driver independence** allows nView to be installed independently of the graphics drivers, with no version interdependencies.

# Release 40: Features and Enhancements

## Feature Enhancements

The following features have been enhanced in the previous Release 40 NVIDIA nView Desktop Manager:

- **Operating System Support** includes Windows NT 4.0, Windows 9x/Me, and Windows 2000/XP.
- **Profile feature.** Display modes are now saved to and loaded from each profile.
- **Multiple desktop support** contains the following new features:
  - Support for multi-display wallpaper selection. (See "Properties: Changing Wallpaper and Desktop Icons" on page 90.)
  - Graphical display in Windows Explorer shell extension
  - Support for icons to represent desktops. ("Properties: Changing Wallpaper and Desktop Icons" on page 90.)
  - Support for arbitrary positioning of windows on the desktops
- **Zoom support** includes:
  - New fixed-frame zoom (*See* "Fixed Frame" on page 139.)
  - Bi-directional zoom editing capability (*See* "Enabling Bi-Directional Editing" on page 140.)

## New Features

The following are features that have been added to the new version of NVIDIA nView Desktop Manager:

- **nView Task Switcher**. When enabled, nView adds a desktop switcher in addition to the standard application tab switcher. By default, this additional "switch desktop" functionality is accessed through a Alt-~ keystroke combination which you can change through options in the Hot Key panel. See "Enable nView Task Switcher" on page 106.
- **Color-keyed windows** allows the user to color key windows for easy identification when activating them on the desktop. See "Enable Windows Color Keying" on page 132.
- **NVKeystone™** allows real-time image correction on portable projectors and heads-up displays. (NVKeystone is not supported on graphics cards based on the TNT, TNT2 or Vanta product families.)

  For example, NVKeystone can be set to compensate for keystoning effects on your windows display, allowing you to fix distorted projection images. This feature is primarily for laptop (mobile) computers.

  See "Accessing NVKeystone" on page 168.
- **Taskbar** and **Menu Transparency**. *See* "Using Effects" on page 129**.**
- **New window actions**, such as, Collapse
- **New applications settings,** including a full set of application launch and disable settings. *See* "Managing Applications: For Advanced Users" on page 172.

# Key Terms and Concepts

Desktop Manager can manage and control many items on your desktop. Generally, it operates on two types of desktop objects – "windows" or "applications".

## application

An application (or program) can have any number of windows. Some applications have only a single window such as Calculator or Notepad. Other applications can have many windows such as Outlook where you can open several E-mail windows, have your Inbox open, open calendars, etc.

Desktop Manager can perform operations on applications as well as windows. In the case of applications, the operation is performed on every window that is part of that application *only if* the operation is enabled through the Individual Settings feature of that application.

If you run multiple copies of an application, any operation you perform on a copy of the application will apply to every copy of the application that is running.

## child window

A child window refers to any "sub" window of the main or "parent" application window. For example, in the Microsoft Excel application, you can open several worksheets at once inside the main Excel window. Each worksheet is a child window of Excel.

## Control Panel

Refers to the Windows Control Panel group, which you can access by clicking **Start** > **Settings** > **Control Panel** from the Windows desktop. **NVIDIA nView Desktop Manager** is a clickable icon in this group of icons. When you click this icon, the nView Desktop Manager properties panel (shown in Figure 1.2) appears.

**Note:** The nView Desktop Manager properties panel in earlier revisions of the this document was called the nView Desktop Manager control panel.

## desktop

A "desktop" is the on-screen work area on which windows, icons, menus, and dialog boxes appear. You can create multiple desktops on single-display systems or multi-display systems, thereby increasing your work area.

## dialog box

Dialog boxes are user-input windows that contain command (buttons) and various kinds of options through which you can carry out a particular command or task. For example, in a Windows application "Save As" dialog box, you must indicate the folder to contain the document to be saved and the name of that document when saving it.

Also see the definition of "modal dialog box" and "modeless dialog box" on this page.

## dual-card configuration

A setup where two or more display devices are connected to two NVIDIA GPU-based graphics cards installed in the computer.

## GPU

**graphics processing unit (GPU)**. NVIDIA graphics chip products are called GPUs. Supported NVIDIA GPUs are listed in "Supported NVIDIA GPUs" on page 27.

## keystoning (NVKeystone)

Keystoning describes the distortion that occurs when your display is projected onto a curved surface or is projected at an oblique angle to a surface.

For example, if a projector were used to project an image on a flat wall, the projector would ideally be set up to point straight at the wall. If you then angled the projector right or left, you would see the image on the wall distort.

As a second example, if you projected your image onto a curved wall instead of a flat wall, you would also see your image distorted. This type of distortion is called "keystoning."

The nView Desktop Manager feature called **NVKeystone** that can compensate for this effect. For details on using this feature, see "Using Tools Options" on page 166.

## modal dialog box

A dialog box that puts you in the state or "mode" of being able to work only in the dialog box. You cannot make a modal dialog box inactive. It can only be closed by clicking one of its buttons.

## modeless dialog box

A dialog box that resembles a document window without a collapse box. You can make a modeless dialog box inactive and active again without closing it.

## multiple-card configuration

A setup where two or more display devices are connected to two (or more) NVIDIA GPU-based graphics cards in the computer.

## multi-display configuration

A setup where two or more display devices are connected to either a multi-display NVIDIA GPU-based graphics card in the computer; *or* two (or more) NVIDIA GPU-based graphics cards in the computer.

## parent window

A "parent" window refers to the "main" default launch window that you see when an application opens. For example, in the Microsoft Outlook application, the main window is your "Inbox", since that's the first window that launches when you open Outlook.

## properties panel

**NVIDIA nView Desktop Manager** is a clickable icon in the Windows Control Panel group of icons. When you click this icon, the nView Desktop Manager properties panel (shown in Figure 1.2) appears.

**Note:** The nView Desktop Manager properties panel in earlier revisions of the this document was called the nView Desktop Manager control panel.

### single-display configuration

A setup where only one display device is connected to the NVIDIA GPU-based graphics card in your computer.

### skin

A file that customizes the "look and feel" of the Windows graphical user interface.

### tab

Individual Desktop Manager "tabs" (i.e., Profiles, Effects, Windows, Hot Keys, and Desktops) are available from the nView Desktop Manager properties panel.

### window

A "window" is any independent window on your desktop. Applications such as Outlook or Explorer may have several windows, which are all part of the same application. Windows can be dragged around the screen, opened and closed, and resized. Desktop Manager allows you to do even more with windows such as make them transparent or force them always to be on top of other windows.

### window class

(*For advanced users only*.)

Every type of window shown on your desktop has what is called a "window class" that describes the type of window it is. These window classes are shared between different applications. Normally, this window class information is hidden from users as there is no need to know it. nView Desktop Manager, however, allows you to perform operations on window classes as well as applications. This allows nView Desktop Manager to be set up to treat certain types or classes of windows differently. Because window classes are shared between applications, by individually configuring a particular window class, you can modify behavior for all applications that use windows of that class.

For example, all dialog boxes have a window class of #32770. nView Desktop Manager can be set up to disable transparency for all #32770 class windows. The effect of this would be that no dialog boxes from any application would ever be transparent.

For details on using this feature, see "Managing Applications: For Advanced Users" on page 172.

# Features and Benefits

The Desktop Manager application engine consists of several features that manage windows, desktops, displays, applications, hot keys, and window

effects. This section provides an overview of the key functions in terms of these features.

For details on these features and how to use them, refer to individual chapters in this guide.

**Note:** A few features may be restricted to users with System Administrator access privileges under Windows XP/2000 and Windows NT 4 and will be noted as such, where applicable in this guide.

## Desktop Management Panel

When you first launch nView Desktop Manager, the Desktop Management panel appears. It provides the following information and features:

- nView Desktop Manager file name, description, and version information
- Lets you toggle between enabling and disabling nView Desktop Manager
- Gives you quick access to the Desktop Manager Setup Wizard
- Gives you quick access to the Windows Display Properties Settings panel

## Windows Management

The windows management features are available on the **Windows** panel of nView Desktop Manager properties.

**Multi-display** features allow you to:

- Configure your system to prevent windows from stretching across (spanning) displays
- Configure where dialog boxes pop up on your desktop. You can have them appear centered on the display device on which your cursor is displayed
- and much more...

For complete details on using Windows Management features, see "Managing Windows" on page 79.

## About the Desktops Panel

Using the **Desktops** panel of nView Desktop Manager properties, you can

- Create up to 32 different desktops, each with its own background. Use multiple desktops to reduce the clutter on your desktop – you can group similar applications on different desktops and quickly switch between them.

- Open and move applications between different desktops and switch between desktops with a single keystroke
- Configure multiple-desktop options, including:
  - Set per desktop resolutions
  - Show the desktop name while switching desktops
  - Show your desktops, including a graphical birds-eye view of each desktop within Windows Explorer
  - and more. . .
- Manage your desktop in several ways to suite your style. You can access and, therefore, switch between desktops using various methods, including:
  - Use hot keys
  - Right click on any desktop
  - Your folder tree in Windows Explorer
  - Options from an NVIDIA Settings icon on your Windows taskbar
  - A desktop **toolbar** (enabled from the **User Interface** panel) that can be floating or docked to your Windows taskbar
  - nView task switcher (enabled from the **User Interface** panel)

For complete details on using Desktops Management features, see "Managing Desktops" on page 84.

## Application Management

The application management functionality of nView Desktop Manager is available from the Applications panel. You can use the options on the Applications panel to do the following tasks:

- Perform operations on entire applications, such as moving an entire application to a desktop or to a monitor.
- Set up your Window Manager to function differently for different applications. For example, you may never want a Word window to span multiple displays; however, you may want a spreadsheet, such as Excel windows, to span multiple displays so you can see all the columns.
- Save all your customized Desktop Manager settings for an application when you close it and restore them when you reopen the application.

  For example, if you enable the **Individual Settings** feature, the application manager can remember if you closed the Microsoft Word application on your second desktop and whether or not the Word window was transparent when

you closed it. When you re-open Word, it automatically opens on your second desktop and have transparency enabled.

Using this feature, you can also specify that Word always launches on a specific desktop with a specific state (such as **Transparent** or **Always on top**).

- **Extend certain applications.** While every window under Desktop Manager has an extended menu giving options such as transparency or desktop visibility, certain applications such as Internet Explorer 5.0 have additional nView menu options allowing you to be more productive with the application.

## About the Profiles Panel

You can quickly set up the Desktop Manager using the **Profiles** panel on nView Desktop Manager properties.

Desktop Manager lets you save a snapshot of *all* desktop management settings to the disk, including all **individual application**, **NVKeystone**, and other settings to a data file called a "**profile**". In addition, profiles can **save and restore display mode, system power profile, and Windows taskbar location**. Display mode information includes the number and position of enabled display device, each display device's refresh rate, resolution, color depth, etc. For details, see Types of Data Saved and Restored by a Profile below.

**Note:** Beginning with the current NVIDIA Release 50 driver, profiles can also **save and load the open application states under NVIDIA Quadro-series GPUs only.**

You can then reload your profile on any computer at any point in the future. If you switch computers, upgrade your operating system, or are configuring an office, you can simply save all your settings to a profile and then load those settings on any computer that you want.

**Note: If you are using an NVIDIA Quadro-based graphics card**, the nView Desktop Manager installation comes with several pre-defined profiles to get you started quickly. These profiles contain the basic settings for different user levels and industries. You can start with one of these pre-defined profiles and tailor it to your own needs.

### Types of Data Saved and Restored by a Profile

Specific types of NVIDIA graphics driver and display mode settings that can be saved in a profile are:

- **Graphics Driver Settings**
  - Desktop colors

  - Performance and quality settings, including OpenGL and Direct3D
  - Overlap and edge blending settings (applies to Quadro FX series of GPUs)
  - Overlay and full screen video settings
- **Desktop Management Settings include:**
- **Open application state**
- **Desktop Management**
- **Display mode information**
  - Taskbar position
  - Computer power state

### Saving Profiles for Different Operating Modes

If you use a notebook (laptop) computer, you may want Desktop Manager to be set up differently when you are docked than when you are not docked. Using profiles, you can create a docked and undocked profile and switch between them. You can even set up a hot key to load a profile so you can switch with a single keystroke.

Profiles management features are discussed in "Working With Profiles" on page 70

## About the User Interface Panel

The nView Desktop Manager **User Interface** options let you customize the user interface that is used on your desktop. Using the User Interface features, you can do the following:

- Control nView Desktop Manager access and notification messages
- Switch between desktops
- Dock profiles, actions, and desktops on an **nView toolbar**
- Define gridlines on each of your monitors, which divides your display area o function as sub-monitors for easily performing tasks involving dialog box repositioning, window spanning and window maximize operations, etc.
- Add application title bar buttons that give you quick and easy access to nView features and also provide feedback about the application state.

  For example, the application title bar "maximize" button maximizes an application window to full desktop in Dualview, Clone, and Single-Display mode or a single display screen in nView Horizontal or Vertical Span mode.

- The nView options menu on each application window let you access nView options (features), which can also be customized for individual applications.

The User Interface features are discussed in "Using the User Interface Options" on page 104.

## About the Tools Panel

For details on using the Tools features, see "Using Tools Options" on page 166.

The nView Desktop Manager toolbox includes several utilities designed to solve specific user problems. You can use tools, such as "NVKeystone" and "flat panel calibration" to improve your display quality. Utilities include anti-keystoning support and flat panel monitor calibration screens are designed to improve windows multi-display features.

The Tools panel contains the following key features:

- **NVKeystone** can be set to compensate for keystoning effects on your windows display, allowing you to fix distorted projection images. This feature is primarily for laptop (mobile) computers.
- **Analog flat panel calibration** displays a screen on your display optimized for your flat panel's auto-calibrate feature allowing for improved image quality during the "auto-sync" process.
- **Automatically align displays** will snap multiple displays into alignment if they are slightly misaligned. This also fixes certain Windows issues where Windows can sometimes leave small gaps between displays.

## About the Zoom Panel

The Zoom panel shows you a user-definable zoom area of your desktop. Basic Zoom styles include

- **Cursor** – window shows area around cursor.
- **Magnifying Glass** – you can drag the zoom window around to zoom the area of the desktop on which you place the zoom window.
- **Fixed Frame** – lets you define a fixed zoom source for the window.

Other zoom features include:

- Using the mouse wheel to dynamically change zoom levels
- Using the auto-move feature to keep the zoom window out of your way.
- Using bi-directional zoom editing to edit through your zoom window.
- Inverting colors of the zoomed image for better visibility.

- For additional details,

## About the Hot Keys and Effects Panels

The **Effects** and **Hot Key** panel options offer additional enhancements, including:

- Faster opening and closing of windows
- Making windows transparent when dragged and making the taskbar transparent

  **Note:** The transparency level is a global level affecting all applications. Note that this value is one which can be individualized for an application
- A "zoom" tool that lets you see a zoomed view of the area around the cursor. You can even use the zoom tool like a *magnifying glass* and drop it on top of what you want to magnify on the desktop
- A full set of hot keys. Virtually every action from toggling a window to be transparent to jumping to a different desktop can be assigned to a hot key.
- For NVIDIA Quadro-based cards, the color keying feature allows you to color windows with different borders, which is most useful with individual application settings and hot keys

For details on using the above features, see the following chapters, as appropriate:


- "Using Zoom Options" on page 136
- "Using Effects" on page 129
- "Using Hot Keys" on page 150.


## About the Mouse Panel

The **Mouse** panel of the nView Desktop Manager properties lets you configure a variety of mouse-related actions for easier navigation.

A few *key features* are described here:

- The **throw window action** allows you the "throw" a window to a screen edge using your mouse.
- **Throw Sensitivity** can be adjusted using a slider
- The **Jump dead screen areas** option will cause the mouse to jump dead areas in non-rectangular multi-display configurations as long as you are moving your mouse at a reasonable speed.

- **Toggle window Z-order with middle mouse button** option does the same as the hot key only with the mouse and to the window that contains the cursor.
- **Auto-activate windows under cursor** – does just that
- **Kinematics** and **gestures** features allow you to
  - Assign mouse movements to trigger different actions (same actions as hot keys)
  - Adjust the gestures with a **Gesture Sensitivity** slider
  - Use a key press to control these actions

### Setup Wizard and Online Help

- A **Setup Wizard** helps you get started with Desktop Manager.
- On-line **Help** displays context-sensitive help when using Desktop Manager configuration options.

## Application Compatibility

While the vast majority of applications are compatible with desktop and windows management, there are some applications that are not. If Desktop Manager detects these types of applications, it will not attempt to manage them. Depending upon the level of compatibility of the application, Desktop Manager may offer varying levels of functionality.

Functionality that may be disabled for these applications includes support for Transparency and Individual Settings features, window position management, nView Desktop Manger menu options, and/or multiple desktop support.

If an application window supports the nView Options Menu, but does not support certain Desktop Manager functions, a menu item called **About this app...** is added to the application's nView option menu. In this case, you can click on this menu item to display information about the features that have been disabled for the application.

If you have any nView title bar buttons enabled, then an nView application status indicator appears to the left of the nView buttons. If the application does not support certain nView functions, this indicator will be red; otherwise it will be black. If the indicator is red, you can click it to display information about the features that have been disabled for this application. For further details, see "Using the User Interface Options" on page 104.

## Examples of Incompatible Applications

Examples of application windows that do not support certain Desktop Manager features include:

- **Command prompt** (**DOS window**) under all operating systems. (All desktop management features are disabled.)
- **Solitaire and Freecell** under Windows Me. (All window management features are disabled.)
- **Microsoft PowerPoint**. (The transparency feature is disabled.)

## Skinning Utilities: Known Issues

If you use skins, Desktop Manager has been tested with several commonly available "skinning" utilities with no known compatibility issues other than those listed below.

Some skins *do not* expose the application window's system menu on its window frame (title bar). As a result, the nView options menu can only be accessed from either a title bar button (see "Show Button for nView Options" on page 116) or a hot key but not from the application window's system menu.

However, you can still access the nView options menu by right clicking the application on the taskbar. For details on the methods available for accessing an application's system menu, see "Add nView Options to System Menus" on page 121.

# Notes on Feature and Configuration Support


- "Feature Support" on page 19
- "Multi-Display Setup: Tips and Requirements" on page 20


## Feature Support

- To access NVIDIA nView-based features using the nView Desktop Manager driver, you need
  - a multi-display graphics card based on any of the NVIDIA GPUs that support multiple displays on a single graphics card, as indicated in Table 2.5, *and*
  - at least two display devices connected to the card.

- Other non-nView features are supported by either single-display or multi-display NVIDIA GPU-based cards; i.e., you can connect only one display device, such as a monitor, and access these features, provided the NVIDIA GPU supports these features.
- The options shown in the NVIDIA properties panels may vary depending on the specific NVIDIA GPU you are using. For example, one or more options that are available for a specific GPU-based card, such as a GeForce4 Ti or GeForce4 MX, may not be available on a GeForce2 Pro or other types of products.

## Multi-Display Setup: Tips and Requirements

- When using a multi-display setup under Windows 2000/XP, running Windows in "Dualview" mode is strongly recommended.
- When running Windows with multiple cards (i.e., two or more NVIDIA GPU-based graphics card are installed in your computer), note the following:
  - Using cards based on the same NVIDIA GPU is strongly recommended.
  - The same NVIDIA driver (version) must be installed for each card.

**Note:** For details on using multi-display modes, see the *ForceWare Release 50 Graphics Drivers User's Guide*.

## Multi-Display Configuration: Tips and Requirements

- When running Windows XP or Windows 2000 with more than two active displays, using "Dualview" mode is strongly recommended.
- When running Windows with multiple cards (i.e., two or more NVIDIA GPU-based graphics card are installed in your computer), note the following:
  - Using cards based on the *same* NVDIA GPU is strongly recommended.
  - The same NVIDIA driver (version) *must* be installed for each card.

**Note:** For details on using multi-display modes, see the *ForceWare Release 50 Graphics Drivers User's Guide*.

## Multi-Display Mode and Feature Support

Table 1.1 lists details of supported operating system modes and Desktop Manager features for Windows 2000, XP, and 9*x*.

**Table 1.1** Multi-Display Mode and Feature Support

| Supported Modes and Features | Windows XP | Windows 2000 | Windows NT 4.0 | Windows 9x |
|---|---|---|---|---|
| Is there nView Dualview support (default) for up to nine (9) display devices? | **Yes** | **Yes** | **Yes** | **Yes** |
| Is nView Clone mode supported? | **Yes** | **Yes** | **Yes** | **Yes** |
| Are nView Span (Horizontal/ Vertical) modes supported?<br>**Note:** In Span mode, a maximum of two (2) display devices are supported. | **Yes** | **Yes** | **Yes** | **NA** |
| Does switching between nView Span/Clone mode and nView Dualview mode require restarting your computer? | **No** | **Yes** | **Yes** | **NA** |
| Are all nView Desktop Manager features supported? | **Yes** | Yes | **Yes**, **except** transparency, mouse, application bar, gridlines, and NVKeystone features | **Yes, except** transparency, gridlines, and mouse features. |
| Hardware Acceleration?<br>• DirectX operations are accelerated if window is constrained to a single monitor otherwise operation is redirected to the software.<br>• OpenGL support | **Yes** | **Yes** | **DirectX**: **Yes**<br>**OpenGL**: Acceleration is disabled in Multiview mode. | **Yes** |

# Examples in this Guide

- For example purposes, most of the NVIDIA panels shown in this guide feature the NVIDIA GeForce FX 5900 Ultra GPU-based graphics card. You may be using a different NVIDIA GPU-based graphics card, in which case you will see the exact name of the GPU you are using reflected in the NVIDIA GPU tab.

  **Note:** As noted earlier, in the current Release 50 NVIDIA graphics driver, the nView Desktop Manager control panel can be opened as a standalone user interface *and* the exact options can be accessed from the NVIDIA display properties menu.

- The example Desktop Manager panels in this guide will show the tabbed version of the control panel instead of the NVIDIA menu version. See Figure 1.2, “nView Desktop Manager Properties: Tabbed Control Panel vs. Menu Style” on page 6.
- The Windows XP panels shown in this document apply also to Windows 2000 functionality, *unless noted otherwise*.
- The Windows Me panels shown in this document also apply also to Windows 98/95 functionality, *unless noted otherwise*.

CHAPTER 2

# SYSTEM REQUIREMENTS

This chapter contains the following topics:


- "Operating Systems" on page 24
- "Minimum Hard Disk Space" on page 25
- "Software: NVIDIA Graphics Driver" on page 26
- "Optional Software: Internet Explorer" on page 26
- "Optional: System Administrator Access Privileges" on page 26
- "Hardware: Supported NVIDIA Products" on page 27
- "Supported Languages" on page 29


## Operating Systems

This release of the nView Desktop Manager driver is designed for the Microsoft operating systems listed in Table 2.1:

**Table 2.1** Operating System Requirements

| Operating System | Minimum Requirements |
|---|---|
| Windows XP Home | |
| Windows XP Professional | |
| Windows XP Media Center | |
| Windows XP Media Center Edition 2004 | |
| Windows Server 2003 x64 | |
| Windows XP AMD64 | |
| Windows 2000 | |
| Windows NT 4.0 | Service Pack 6 |

**Table 2.1** Operating System Requirements (continued)

| Operating System | Minimum Requirements |
|---|---|
| Windows Me | |
| Windows 98 | Microsoft DirectX™ 5 |

**Note:** Windows 98 and Me are collectively called Windows 9x in this guide.

## Minimum Hard Disk Space

The minimum hard disk space requirements for each operating system are listed in Table 2.2, Table 2.3, and Table 2.4.

**Table 2.2** Hard Disk Space Requirements — English

| Operating System | Minimum Disk Space Required |
|---|---|
| Windows XP | 19.2 MB |
| Windows 2000 | 19.2 MB |
| Windows NT | 15.2 MB |
| Windows Me | 19.3 MB |
| Windows 98 | 19.3 MB |
| Windows 95 | 19.3 MB |

**Table 2.3** Hard Disk Space Requirements — Non-English Languages

| Operating System | Minimum Requirements |
|---|---|
| Windows XP | 24.9 MB |
| Windows 2000 | 24.9 MB |
| Windows NT | 24.8 MB |
| Windows Me | 24.8 MB |
| Windows 98 | 24.8 MB |
| Windows 95 | 24.8 MB |

**Table 2.4** Hard Disk Space Requirements — Full International Package

| Operating System | Minimum Requirements |
|---|---|
| Windows XP | 44.1 MB |
| Windows 2000 | 44.1 MB |
| Windows NT | 40.0 MB |
| Windows Me | 44.1 MB |
| Windows 98 | 44.1 MB |
| Windows 95 | 44.1 MB |

## Software: NVIDIA Graphics Driver

Make sure the current version of the NVIDIA graphics driver software for your Windows operating system has been installed on your computer.

Consult your System Administrator if you are unsure about the version that is installed.

For further information on driver installation, see "Installing and Uninstalling the Graphics Driver" on page 30.

## Optional Software: Internet Explorer

You must have installed *Microsoft Internet Explorer 6.0 or later version* in order to access the "Desktop Explorer" feature as well as specific nView Menu Options that are available for Internet Explorer. See "Internet Explorer Options" on page 181.

## Optional: System Administrator Access Privileges

You can use nView Desktop Manager with or without System Administrator access privileges.

**Note:** However, certain Profiles features require System Administrator privileges under Windows NT 4.0 and Windows 2000/XP.

# Hardware: Supported NVIDIA Products

Table 2.5 lists the NVIDIA products supported by the NVIDIA graphics driver software and the number of displays the GPU-based card supports.

**Note:** Some Desktop Manager features support only certain NVIDIA GPUs, which are noted in this table and where applicable in this guide.

**Note:** The Desktop Manager "transparency" feature works best with NVIDIA GPUs that have higher performance than GeForce2 GTS.

**Table 2.5** Supported NVIDIA GPUs

| NVIDIA Desktop Products | NVIDIA Workstation Products | Number of Displays Supported Per Card |
|---|---|---|
| nForce™2 S<br>nForce2 ST<br>nForce2 G<br>nForce2 | | **2**— applies to all GPUs in this category. |
| nForce 420/420D<br>nForce 220/220D | | **1**— applies to all GPUs in this category. |
| GeForce FX 5950 Ultra | | **2** — applies to all GPUs in this category. |
| GeForce FX 5700 Ultra<br>GeForce FX 5700<br>GeForce FX Go5700<br>GeForce FX Go5750 | Quadro FX 1100 | **2** — applies to all GPUs in this category. |
| GeForce FX 5900<br>GeForce FX 5900 Ultra<br>GeForce FX 5950 | Quadro FX 3000 | **2** — applies to all GPUs in this category. |
| GeForce FX 5200 Ultra<br>GeForce FX 5200<br>GeForce FX Go5100<br>GeForce FX Go5200 | Quadro FX 500<br>Quadro NVS 280 PCI | **2** — applies to all GPUs in this category. |
| GeForce FX 5600 Ultra<br>GeForce FX 5600<br>GeForce FX 5600 SE<br>GeForce FX Go5600 | Quadro FX Go700 | **2** — applies to all GPUs in this category. |
| GeForce FX 5800 Ultra<br>GeForce FX 5800 | Quadro FX 2000<br>Quadro FX 1000 | **2** — applies to all GPUs in this category. |
| GeForce4 Ti 4800<br>GeForce4 Ti 4800 SE<br>GeForce4 Ti 4200<br>GeForce4 4200Go | Quadro4 980 XGL<br>Quadro4 780 XGL<br>Quadro4 Go700 | **2** — applies to all GPUs in this category. |

**Table 2.5** Supported NVIDIA GPUs (continued)

| NVIDIA Desktop Products | NVIDIA Workstation Products | Number of Displays Supported Per Card |
|---|---|---|
| GeForce4 Ti 4600<br>GeForce4 Ti 4400<br>GeForce4 Ti 4200<br>GeForce4 440 Go<br>GeForce4 420 Go<br>GeForce4 410 Go | Quadro4 900 XGL<br>Quadro4 750 XGL<br>Quadro4 700 XGL | **2** — applies to all GPUs in this category. |
| GeForce3<br>GeForce3 Ti 500<br>GeForce3 Ti 200 | Quadro DCC | **1** — applies to all GPUs in this category. |
| GeForce4 MX 440<br>GeForce4 MX 440 SE<br>GeForce4 MX 420 x | Quadro4 580 XGL<br>Quadro NVS 280<br>Quadro4 380 XGL | **2** — applies to all GPUs in this category. |
| GeForce4 MX 460<br>GeForce4 MX 440<br>GeForce4 MX 440-SE<br>GeForce4 MX 420 | Quadro4 550 XGL<br>Quadro NVS 200 | **2** — applies to all GPUs in this category. |
| | Quadro NVS 400 | **4** — applies to all GPUs in this category. |
| GeForce2 Ti<br>GeForce2 Ultra<br>GeForce2 Pro<br>GeForce2 GTS | Quadro2 Pro | **1** — applies to all GPUs in this category. |
| GeForce2 MX<br>GeForce2 MX400<br>GeForce2 MX200<br>GeForce2 MX100<br>GeForce2 Go | Quadro2 MXR<br>Quadro2 EX<br>Quadro2 Go | **2** — applies to all GPUs in this category |
| GeForce 256 | Quadro | **1** — applies to all GPUs in this category. |
| NVIDIA RIVA TNT2™ Ultra<br>NVIDIA RIVA TNT2 Pro<br>NVIDIA RIVA TNT2<br>NVIDIA RIVA TNT2 M64<br>NVIDIA Vanta™<br>NVIDIA Vanta LT | --- | **1** — applies to all GPUs in this category. |
| NVIDIA RIVA TNT™ | --- | **1** — applies to all GPUs in this category. |

## Supported Languages

The following languages are supported in the NVIDIA panels that are accessible from the Windows **Display Properties** > **Settings** > **Advanced** option.

English (USA)
English (UK)
Arabic
Chinese (Simplified)
Chinese (Traditional)
Czech
Danish
Dutch
Finnish
French
German
Greek
Hebrew
Hungarian
Italian
Japanese
Korean
Norwegian
Polish
Portuguese (Brazil)
Portuguese (Euro/Iberian)
Russian
Slovak
Slovenian
Spanish
Spanish (Latin America)
Swedish
Thai
Turkish

CHAPTER 3

# INSTALLING AND UNINSTALLING THE GRAPHICS DRIVER

This chapter contains the following major sections:


- "Before You Begin" on page 30
- "About the Graphics Driver Installation" on page 31
- "Uninstalling the Graphics Driver" on page 32
- "Using the NVIDIA Graphics Driver Menu" on page 33


## Before You Begin

In order to access the NVIDIA Display Properties tabs, the latest version of the NVIDIA graphics driver for your Windows operating system must be installed on your computer.

- If you do not have System Administrator access privileges, it is assumed that the appropriate person with System Administrator access in your organization will set up and install the NVIDIA graphics driver software on your computer.
- This chapter discusses the installation process but does not provide step-by-step instructions on how to perform an actual installation.

# About the Graphics Driver Installation

The nView Desktop Manager feature is part of your NVIDIA graphics driver installation files and, therefore, is automatically installed when the NVIDIA graphics driver software is installed.

NVIDIA Driver Installation provides both an `.inf` file-based installation method and an InstallShield Wizard-based installation method.

## File Locations

- The installation process copies all necessary files for operation into the appropriate directories.
- The nView system files are copied to your `Windows\System` directory.
- Predefined nView Desktop Manager (`.tvp`) profile files are saved in the `Windows\nView` directory.

  **Note:** Under Windows 2000/XP, new profiles that you create are saved in the `Documents and Settings\All Users\Application Data\nView_Profiles` directory.
- As part of the installation process, an uninstall is registered in your system.
- Under Windows Me and Windows XP, the NVIDIA driver is installed in "Dualview" display mode. However, note that the second display is not activated (turned on) by default. You need to enable it. For details on enabling Dualview mode, see the *ForceWare Release 50 Graphics Drivers User's Guide*.
- Under Windows 2000, the NVIDIA graphics driver software is installed in Span mode for all NVIDIA GPU-based graphics cards, except Quadro the NVS series cards, which are installed in Dualview mode.

## Preserving Desktop Manager Settings Before Upgrading Your Software

You can preserve your Desktop Manager settings by using profiles when you upgrade your software.

Follow the steps below and/or refer to the *NVIDIA nView Desktop Manager 2.0 User's Guide* for details.

1. Before uninstalling or installing software, save your current nView Desktop Manager settings to a new profile.

   For example, name this profile "`My Settings`".

2 Open the Profiles directory.

You should see your new profile `.tvp` file in this directory; for example, `My Settings.tvp`.

3 You can copy this file to a disk in your A: drive *or* to a different directory on your hard drive.

4 Uninstall the currently installed NVIDIA graphics driver software on your system. See details in Uninstalling the Graphics Driver below.

5 Install the new version of the NVIDIA graphics driver software.

6 Copy your profile `.tvp` file back into the Profiles directory.

7 Start nView Desktop Manager and load your profile.

When you load this profile, all your nView Desktop Manager settings, including Individual Settings you may have set up for applications, are restored.

# Uninstalling the Graphics Driver

**Note:** It is highly recommended that you follow the steps in this section to completely uninstall the NVIDIA graphics driver before installing a new version of the software.

To uninstall the NVIDIA graphics driver software, follow these steps:

1 From the Windows taskbar, click **Start** > **Settings** > **Control Panel** to open the Control Panel windows.

2 Double click the **Add/Remove Programs** item.

3 Click **NVIDIA display driver** from the list.

4 Click **Change/Remove**.

5 Click **Yes** to continue.

A prompt appears asking whether you want to delete all of the saved nView profiles.

- If you click **Yes**, all of the nView software and all of your saved profiles will be deleted.
- If you click **No**, the nView software is removed, but the profile file are saved in the `Windows\nView` directory on your hard disk.

Your system now restarts.

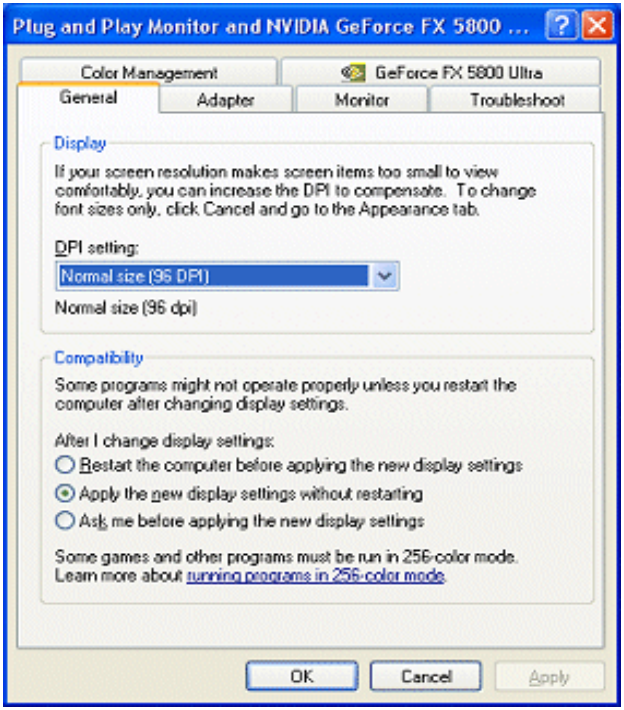
# Using the NVIDIA Graphics Driver Menu

Once your NVIDIA graphics driver software is installed, you can access the NVIDIA graphics driver features that are available on the Media Center menu by using the procedures that are explained and illustrated in this section.

1 From your Windows desktop, right click to display the desktop menu and click **Properties** > **Settings (**tab) and then **Advanced**.

You will see the name of your NVIDIA GPU on a tab (Figure 3.1).

**Figure 3.1** NVIDIA GPU Tab




2 Click the NVIDIA GPU tab, which displays the name of the NVIDIA GPU-based graphics card that is installed on your computer.

The NVIDIA menu appears as shown in Figure 3.2.

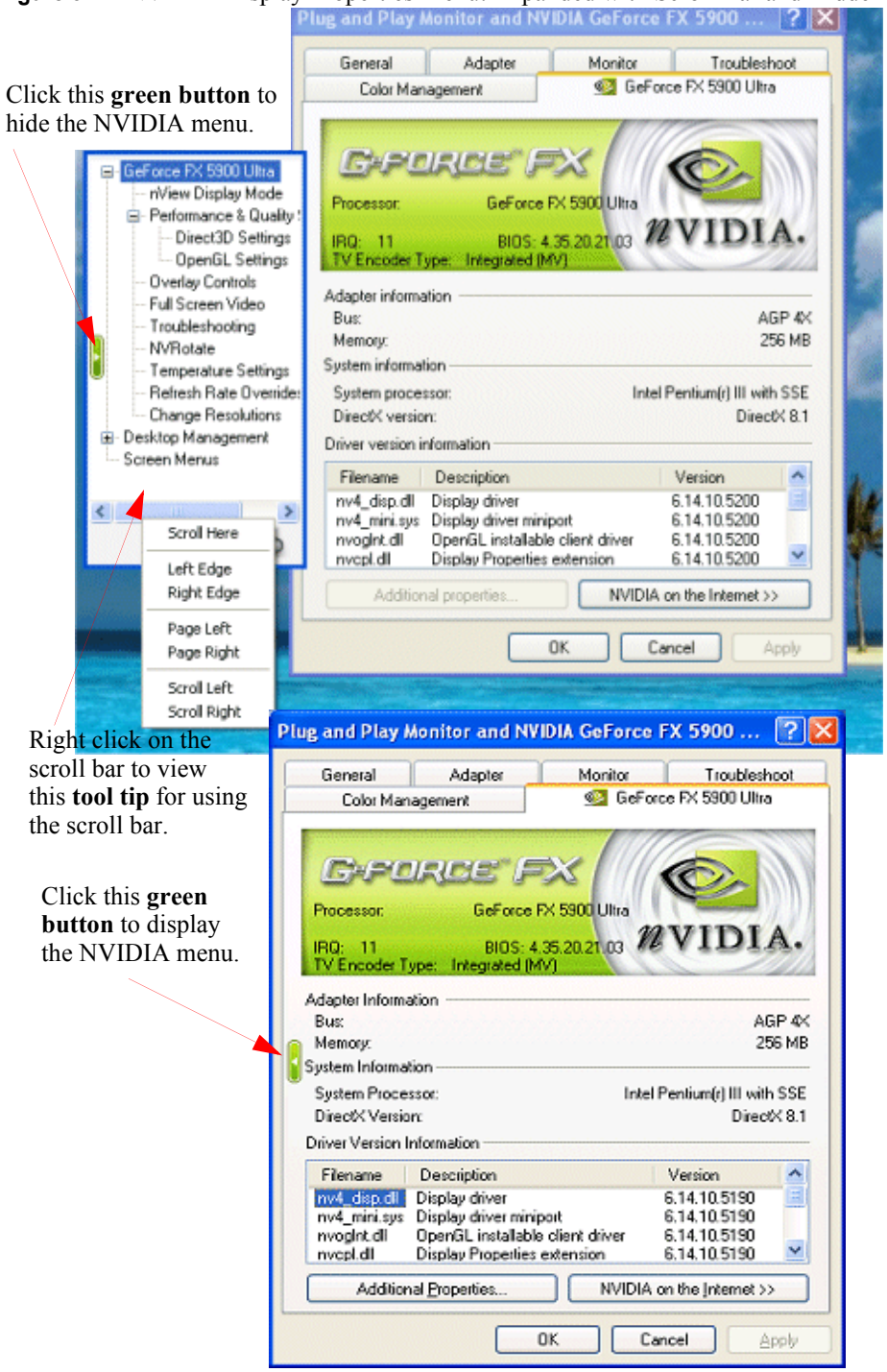
3 To toggle between hiding and showing the menu, click the green button on the NVIDIA menu.

(Figure 3.2 also shows the GPU panel with a hidden menu.)

4 Click the scroll bar (Figure 3.2) and drag it left or right to view the entire contents of the longer menu names.

**Note:** You can right-click on the scroll bar to see tool tips (Figure 3.2).

**Figure 3.2** NVIDIA Display Properties Menu: Expanded with Scroll Bar and Hidden



From the NVIDIA menu, you can access all the NVIDIA properties panels where you can configure the following NVIDIA graphics driver features.

- **nView Display Mode**. This option *does not appear* if you have only one display device attached. It appears only when you have more than one display device attached.
- **Performance and Quality Settings**
- **Direct3D Settings**
- **OpenGL Settings**
- **Overlay Controls**
- **Troubleshooting**
- **NVRotate**
- **Full Screen Video**
- **NVRotate**
- **Temperature Settings**. This option is available only with the GeForce FX GPU and only if the feature is enabled on GPUs that are older than the GeForce FX)
- **Screen Menus**
- **Desktop Manager**. For details on using the Desktop Manager features, see the *nView Desktop Manager User's Guide* for the Release 50 driver.

To view any of the properties panels, simply click the choice on the menu. Figure 3.3 shows a sample nView Display Modes panel for Windows 2000/XP and Figure 3.4 shows one for Windows Me/9*x*.

## NVIDIA Settings Utility

The NVIDIA Settings is a new application that can be used in place of the NVIDIA display properties menu described earlier.

You can access NVIDIA Settings by clicking the NVIDIA Settings icon, which you can optionally add to the Windows taskbar.

This taskbar utility menu items that provide access to the same display settings that the regular NVIDIA menu contains, in additional to direct access to certain application-specific options such as those for nView Desktop Manager, OpenGL and Direct3D customized settings, and others.

For details on enabling the NVIDIA Settings icon, see "Using the NVIDIA Settings icon" on page 67.

**Figure 3.3** NVIDIA Display Properties: NVIDIA Menu (Windows XP/2000)

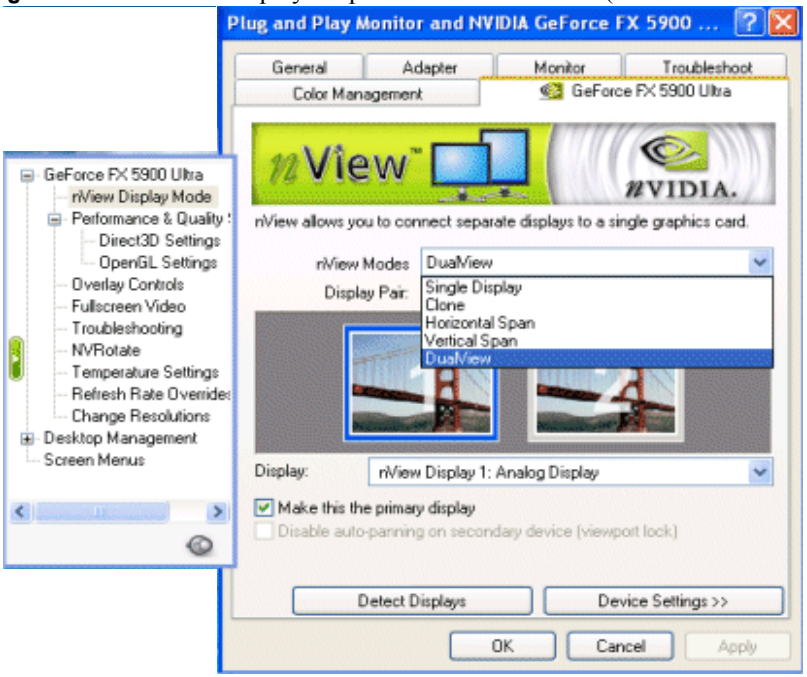
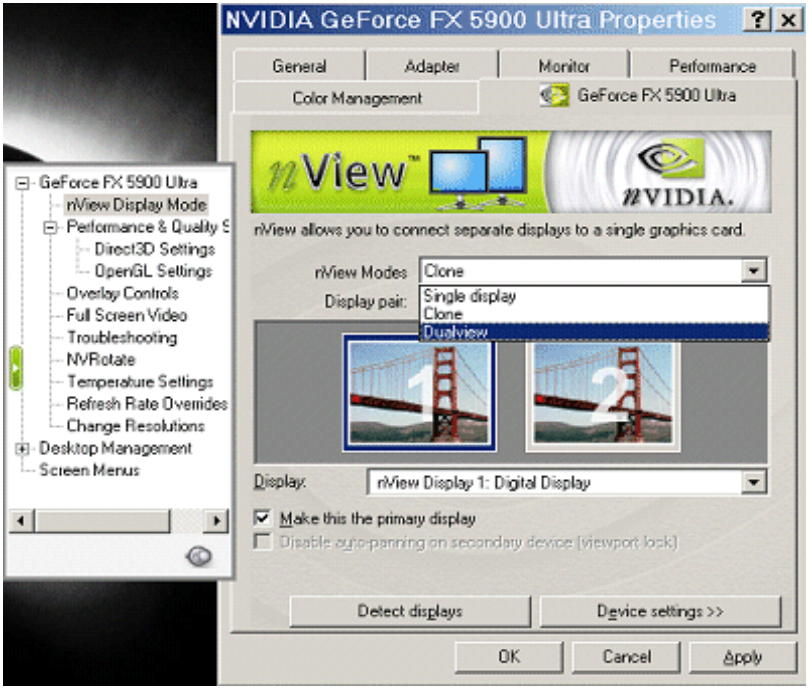



**Figure 3.4** NVIDIA Display Properties: NVIDIA Menu (Windows 9*x*)



CHAPTER 4

# USING THE DESKTOP MANAGER SETUP WIZARD

This chapter contains the following major sections:


- "About the Setup Wizard" on page 38
- "About Using the Setup Wizard" on page 42
- "Auto-Launch Wizard Pages After First-Time Installation" on page 43
- "Desktop Management Wizard Pages" on page 52
- "Desktop Management Wizard Pages for NVIDIA Quadro GPU-based Graphics Cards" on page 57


## About the Setup Wizard

The nView Desktop Manager Setup Wizard is a series of dialog boxes that guides you in setting the most common global settings for window, desktop, and application management.

Each Wizard page (window) contains descriptive text for a specific option and, in some cases, an illustration that shows the effect of the option; for example, window repositioning or spanning. You can also chose to skip major option groups.

There are two nView Desktop Manager Wizards.

## Multi-Display Auto-Launch Wizard: Multi-Display vs. Single-Display Setup

The **Multi-Display Setup Wizard** automatically launches after a first-time NVIDIA driver installation when there are at least two display devices attached. After this initial wizard launch, you cannot access this particular wizard until you uninstall the NVIDIA driver and then reinstall.

If you are setup with a multi-display configuration (i.e., you have more than one display device connected), the *first time* you start Windows on your computer after installing the NVIDIA Windows graphics driver software, the *Wizard starts automatically*. On subsequent Windows sessions, you can start the Wizard from the **Wizard** option on the nView Desktop Manager properties **Desktop Management** panel.

**Note:** If you are setup with only a single display device, the *first time* you start Windows on your computer after the installation of the NVIDIA Windows graphics driver software, the Wizard *does not start automatically*. You can start the **Wizard** option from the Desktop Management panel on the nView Desktop Manager control panel, as shown in Figure 4.3.

## Manually Starting the Wizard Using the Wizard Option

If you want to use the nView Desktop Manager Wizard *after* the Multi-Display Setup Wizard has gone through the auto-launch process, you have to invoke the nView Desktop Manager Wizard using the **Wizard** option from the Desktop Management panel on the nView Desktop Manager control panel, as shown in Figure 4.3.

This sections contains the following topics:


- "Enabling nView Desktop Manager From the Windows Control Panel" on page 40
- "Starting the Wizard from the nView Desktop Manager Desktop Management Panel" on page 42

## Enabling nView Desktop Manager From the Windows Control Panel

**Note:** If you haven't yet enabled nView Desktop Manager (i.e., when you right click on your Windows desktop, you do not see **nView Properties** as a menu option), follow these steps; otherwise, go directly to "Starting the Wizard from the nView Desktop Manager Desktop Management Panel" on page 42.

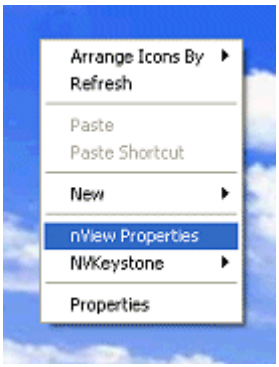
1 From your Windows desktop, click **Start** > **Settings** > **Control Panel**.

2 Locate the **NVIDIA nView Desktop Manager** icon and double-click it to display the **Desktop Management** panel (Figure 4.2).

3 To enable Desktop Manager, click the **Enable nView Desktop Manager** check box and click **Apply**. Figure 4.3 shows the Desktop Manager **Desktop Management** panel *after* Desktop Manager is enabled.

4 From your Windows desktop, right click to display the properties menu, which will now contain the **nView Properties** option (shown earlier in Figure 5.1).

**Figure 4.1** nView Desktop Manager Enabled: nView Properties Appear on Desktop Menu




5 Once you have loaded Desktop Manager, to unload it, uncheck the **Enable nView Desktop Manager** check box on the Desktop Manager **Desktop Management** tab (shown in Figure 4.2 and Figure 4.3) and click **Apply**.

**Figure 4.2** *Default* Desktop Managment Panels: Tabbed and Menu Views

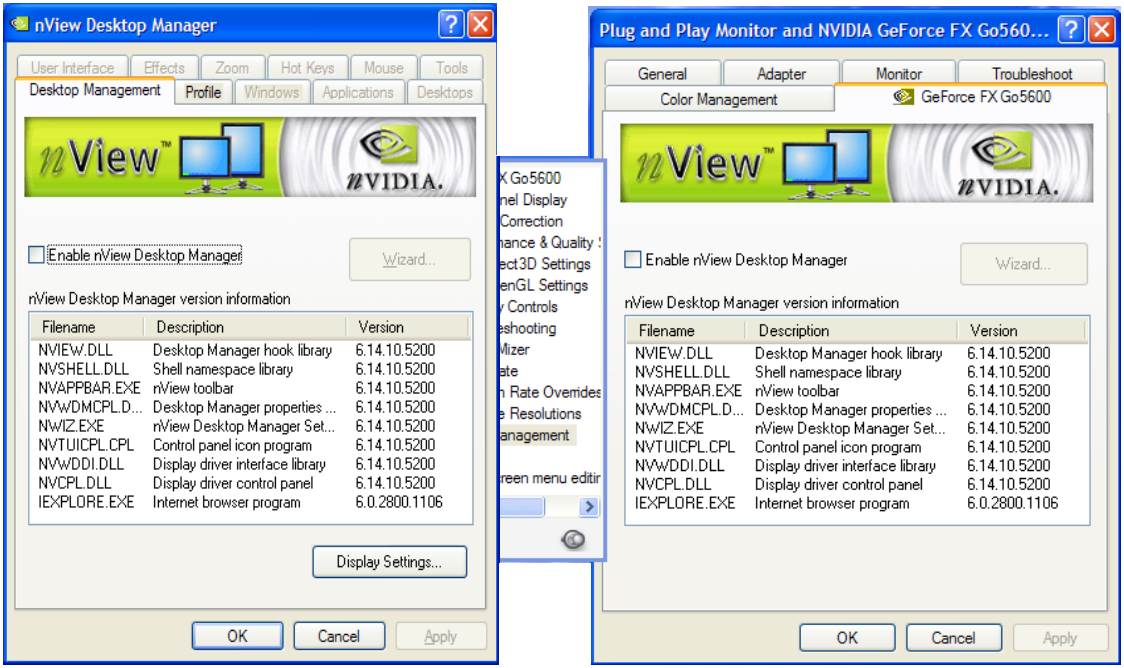
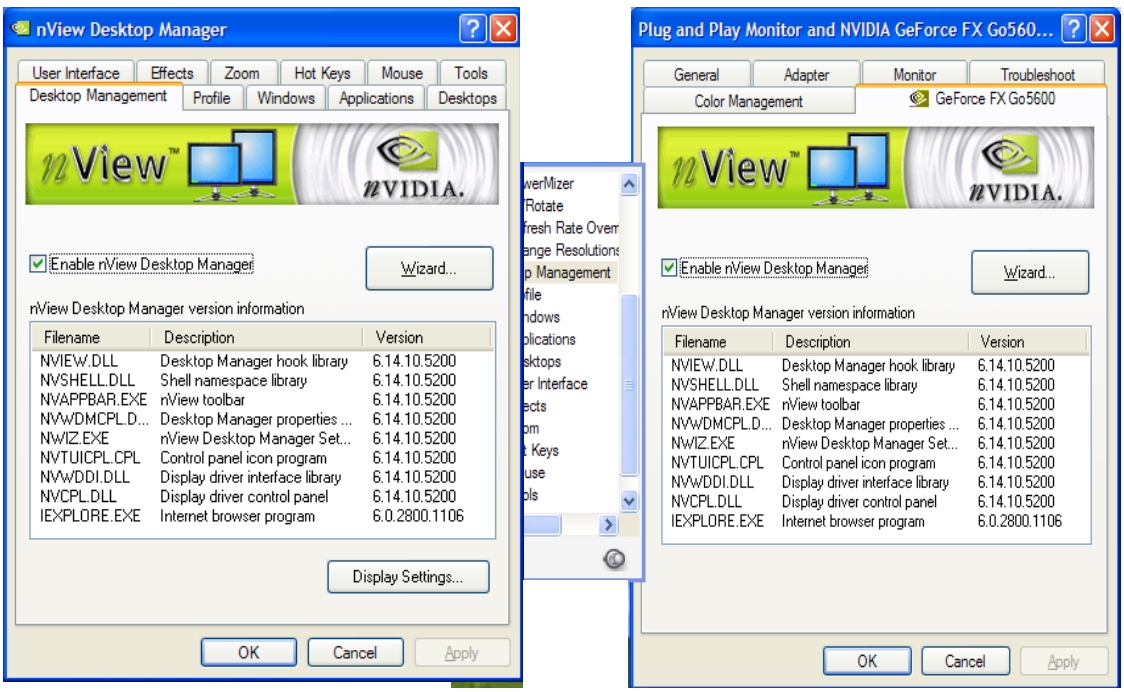



**Figure 4.3** Desktop Management Panels After Enabling Desktop Manager



### Starting the Wizard from the nView Desktop Manager Desktop Management Panel

**Note:** If nView Desktop Manager is already enabled, follow these steps; otherwise, see "Enabling nView Desktop Manager From the Windows Control Panel" on page 40.

1. Right click from your Windows desktop and click **nView Properties**.
2. From the **Desktop Management** tab that appears (Figure 4.3), click **Wizard**.

# About Using the Setup Wizard

The figures in this section show a few examples of the step-by-step Wizard pages you will see when running the Desktop Manager Wizard.

Use the following guidelines when using the Wizard:

- Use the **Back** and **Next** options to navigate through the windows.
- Carefully read the content of each Wizard page, which serves as a quick overview of key Desktop Manager features and lets you enable/disable certain key features by clicking an option.
- If you enable a feature, note that you can change this setting later through the Desktop Manager control panel tabs or menu options,
- If you do not want to enable one or more features in a given window, click **Next** to go to the next window.

## Notes Before You Begin

There may be some variation in the number and type of Wizard windows that appear, depending on your configuration; i.e., whether you are running Windows Me/9*x* (limited Desktop Manager features), multiple displays or single-display connected, and so on.

- For example, if your system only has one display device connected and no gridlines defined, Window Management Wizard pages (e.g, Figure 4.24 through Figure 4.26) will not appear.
- Also note that because *transparency* is not a supported feature under Windows 9*x* or Windows NT 4.0, the Wizard page containing this option (Figure 4.28) will not be available under those operating systems.

# Auto-Launch Wizard Pages After First-Time Installation

The auto-launch Wizard pages in this section are automatically launched when you start up your Windows desktop after a first-time installation of the NVIDIA graphics driver software. Use these wizard pages to:

- Set up multiple-displays
- Enable and launch the nView Desktop Manager control panel

**Note:** Based on your display device configuration and the options you choose on a Wizard page, the Wizard pages you will see may differ from the examples given in this section.

**Figure 4.4** Auto-Launch Wizard Welcome Page

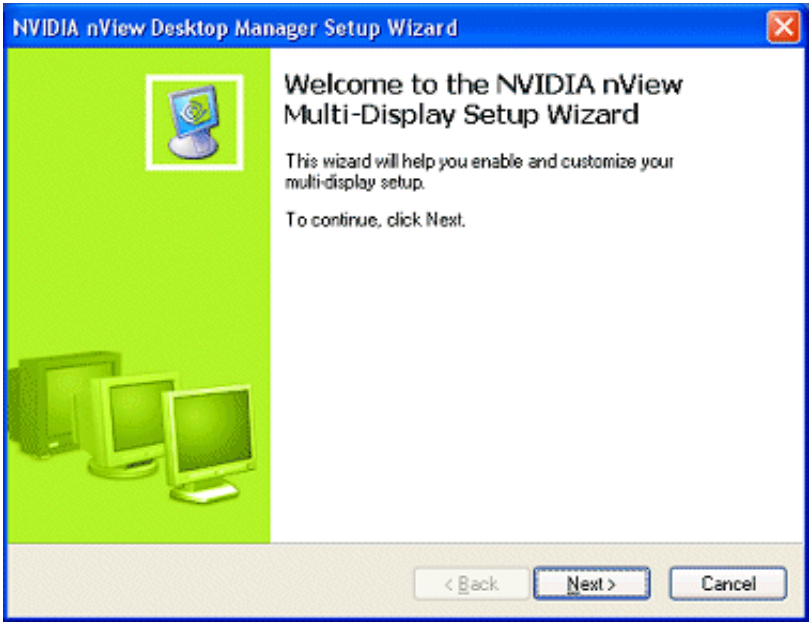


**Figure 4.5** Auto-Launch Wizard Setup Option: "Typical Setup" Selected

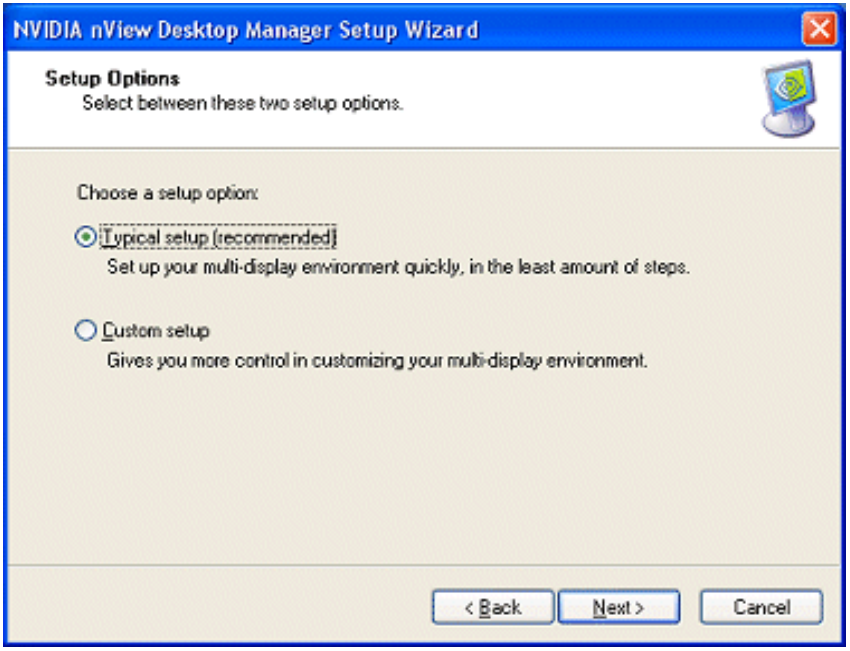



**Figure 4.6** Auto-Launch Wizard Setup Option: Display Settings for Typical Setup

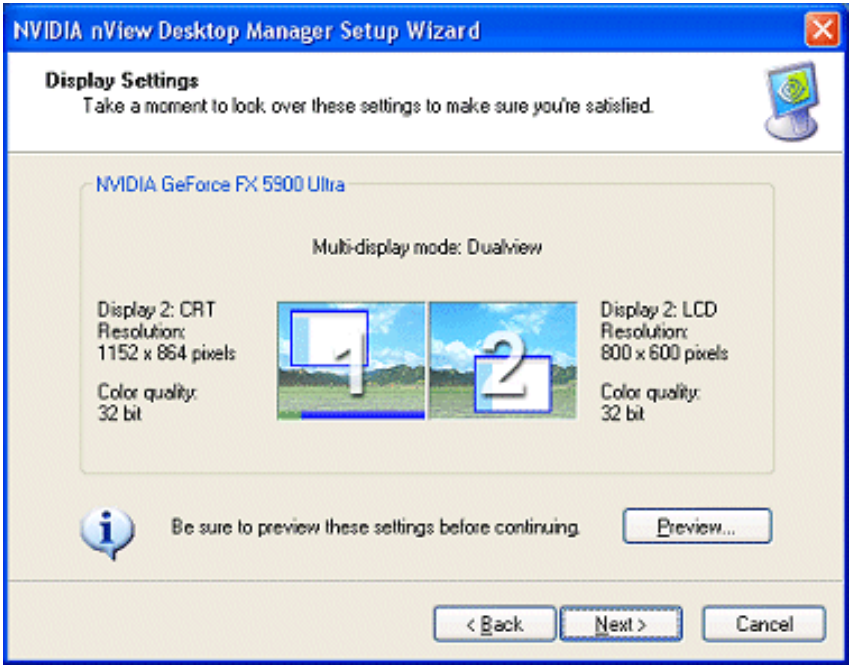


**Figure 4.7** Auto-Launch Wizard Setup Options Page: "Custom Setup" Selected

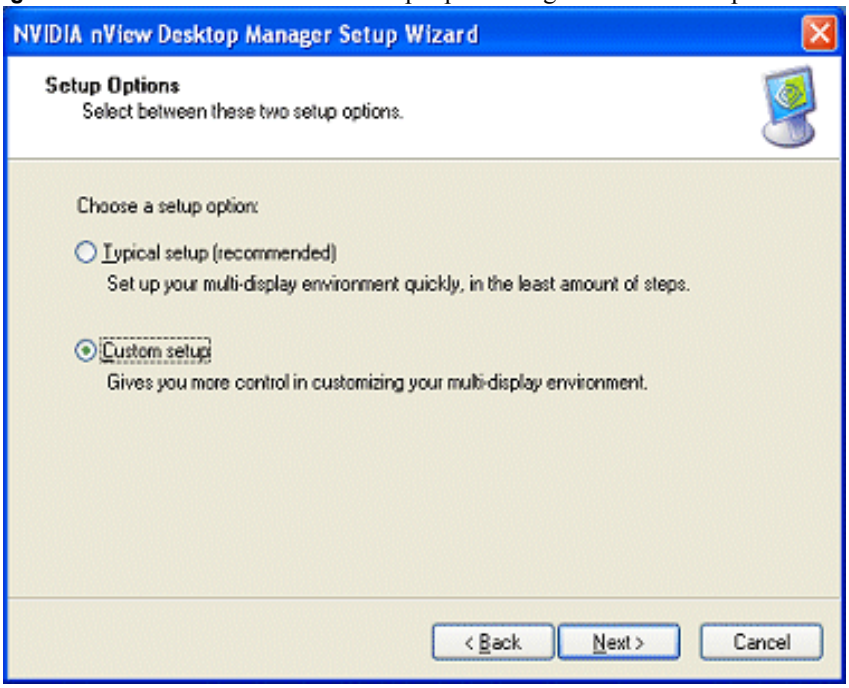



**Figure 4.8** Auto-Launch Wizard: Multi-Display Mode Page: Dualview Mode Selected

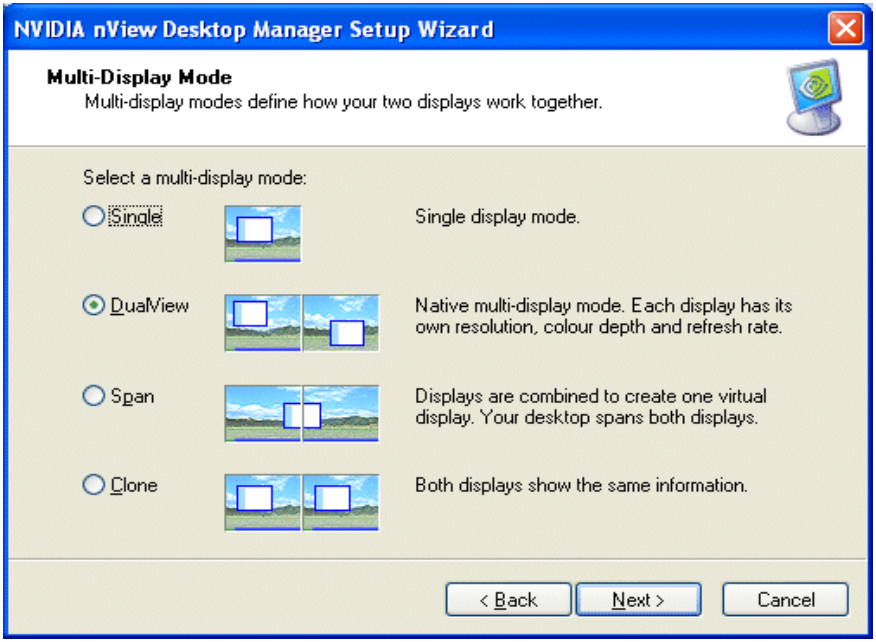


**Figure 4.9** Auto-Launch Wizard Display Settings Page for *Dualview* Mode (2 CRT Example)

**Figure 4.10** Auto-Launch Wizard: Multi-Display Mode Page: Span Mode Selected

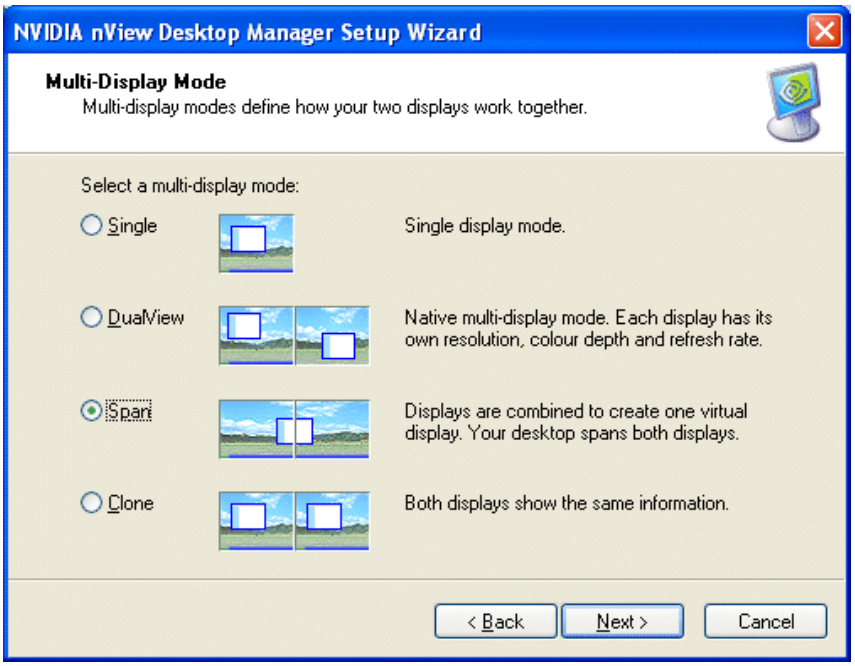


**Figure 4.11** Auto-Launch Wizard Display Settings Page for *Span Mode* (Example 1)

**Figure 4.12** Auto-Launch Wizard Display Settings Page for *Span Mode* (Example 2)

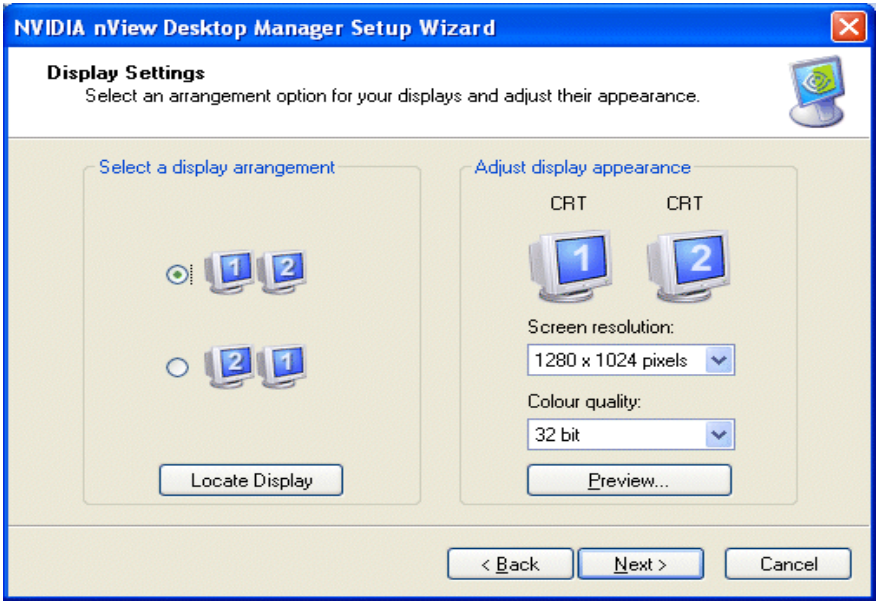


**Figure 4.13** Auto-Launch Wizard Display Settings Page for *Span Mode* (Example 3)

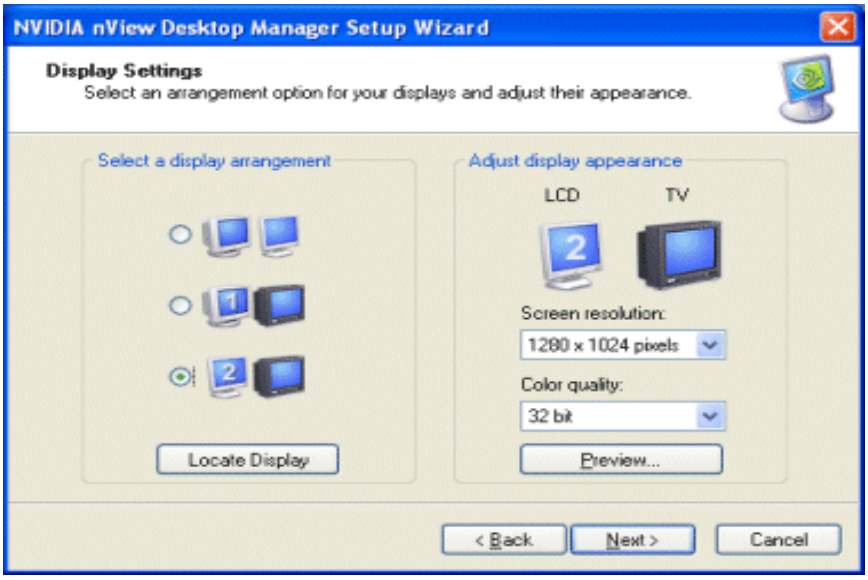



**Figure 4.14** Auto-Launch Wizard Display Settings Page for *Span Mode* (Example 4)

**Figure 4.15** Auto-Launch Wizard Multi-Display Mode Page: Clone Mode Selected

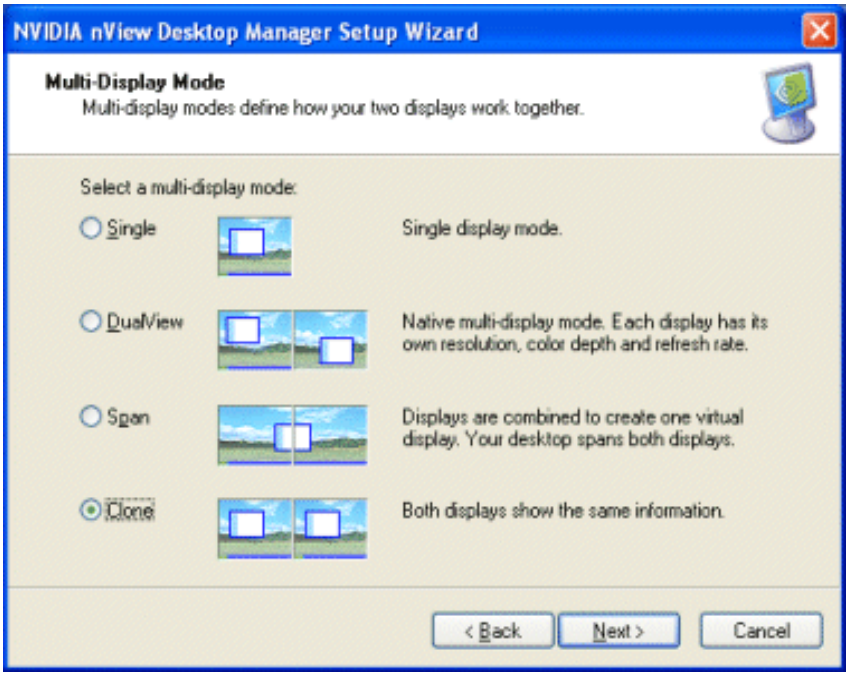



**Figure 4.16** Auto-Launch Wizard Display Settings Page for *Clone Mode* (2 CRT Example)

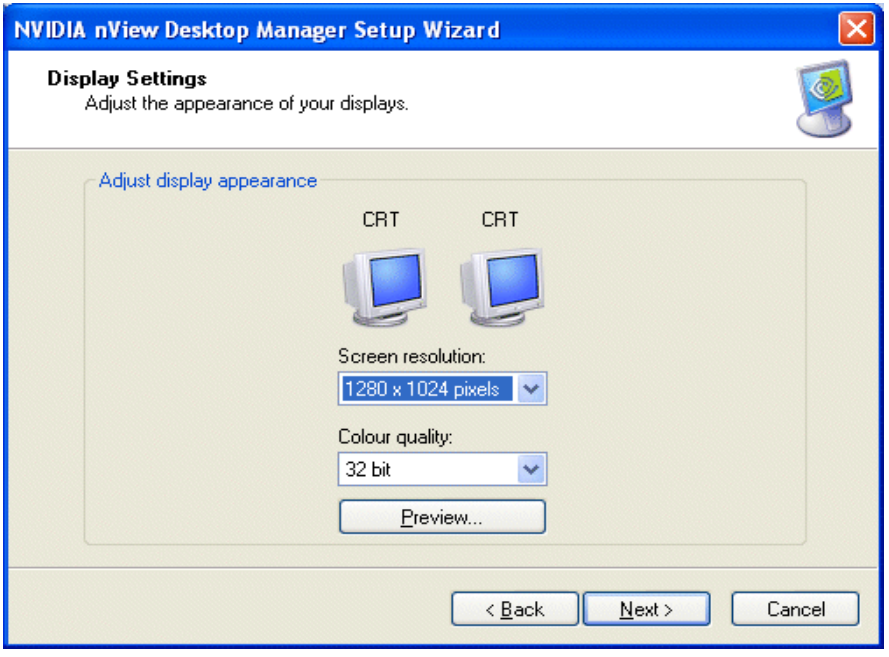


**Figure 4.17** Auto-Launch Wizard Page: NOT Enabling Desktop Manager

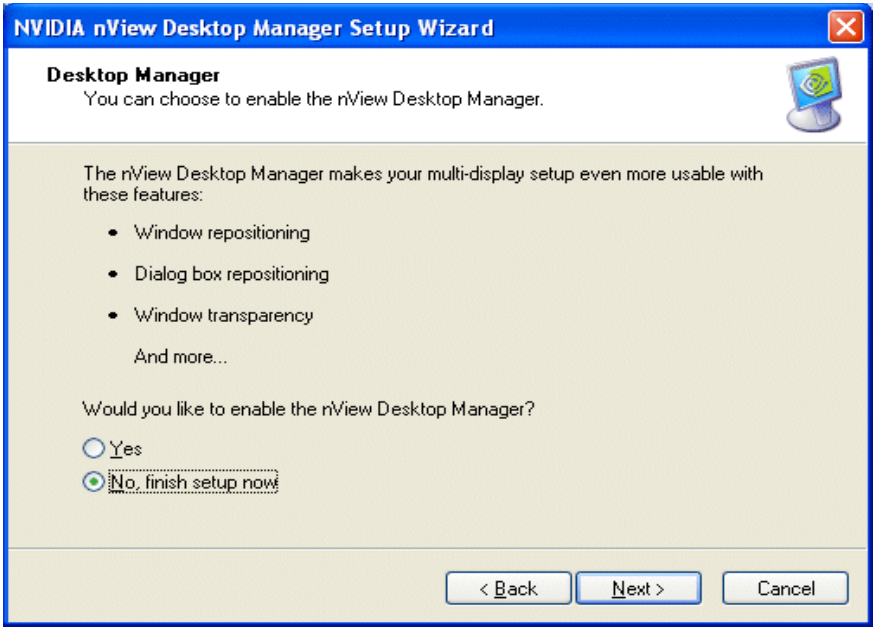



**Figure 4.18** Auto-Launch Wizard Completion Without Enabling nView Desktop Manager

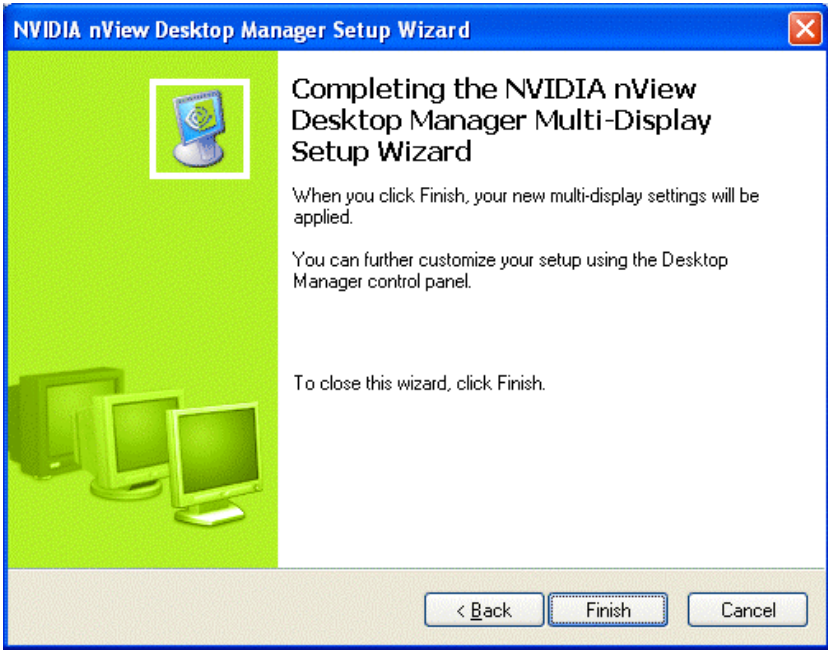


**Figure 4.19** Auto-Launch Wizard: Enabling nView Desktop Manager l

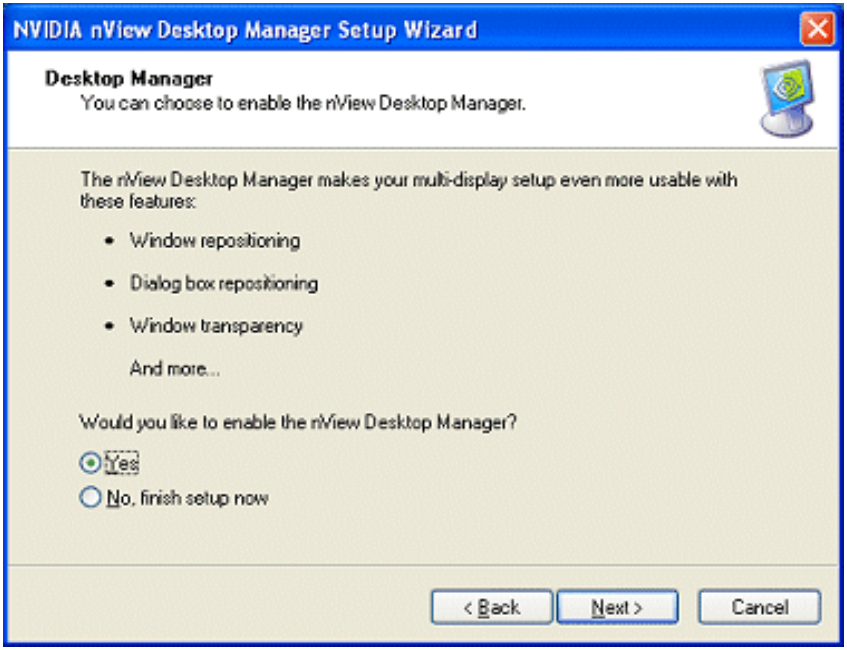



**Figure 4.20** Auto-Launch Wizard Completion Without Enabling nView Desktop Manager

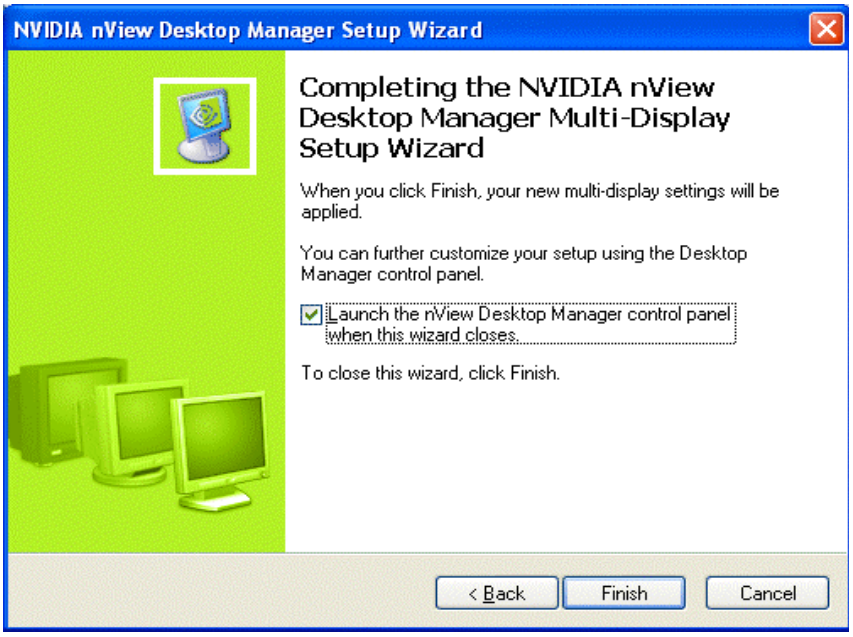
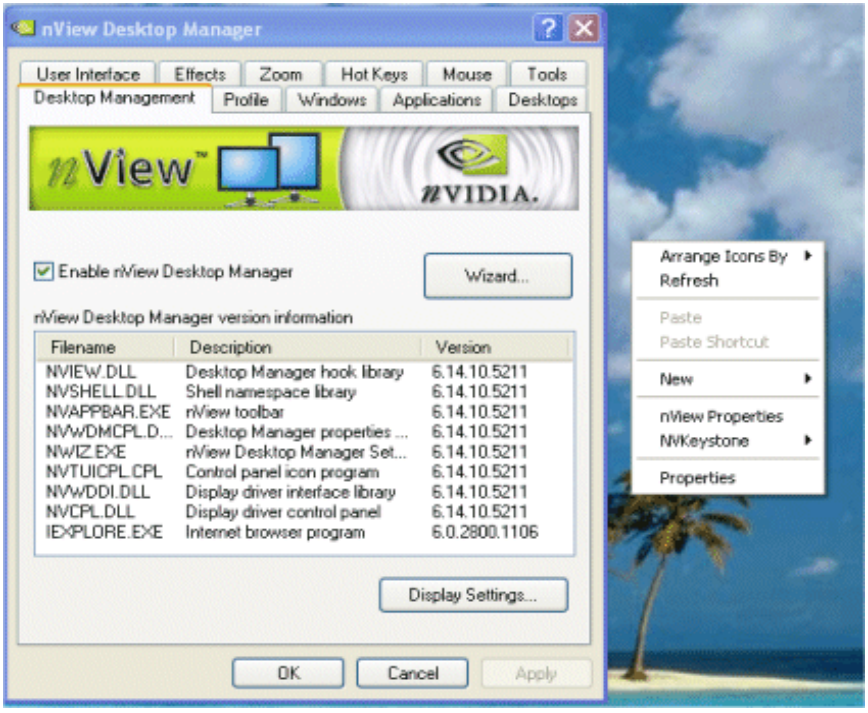


**Figure 4.21** nView Desktop Manager Control Panel Launched




# Desktop Management Wizard Pages

The Wizard pages in this section are available when you click the **Wizard** option from the Desktop Management panel of the nView Desktop Manager control panel, as sown in Figure 4.2 and Figure 4.3.

**Note:** Based on your display device configuration and the options you choose on a Wizard page, the Wizard pages you will see may differ from the examples given in this section.

**Figure 4.22** Desktop Management Wizard: Welcome Page

**Figure 4.23** Desktop Management Wizard: Profiles Page

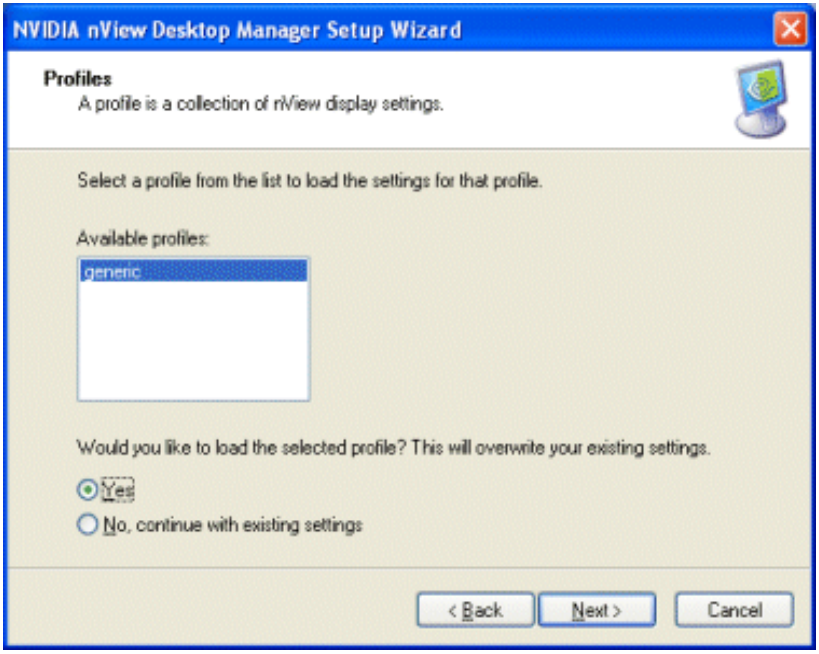


**Figure 4.24** Desktop Management Wizard: Window Management Page (1)

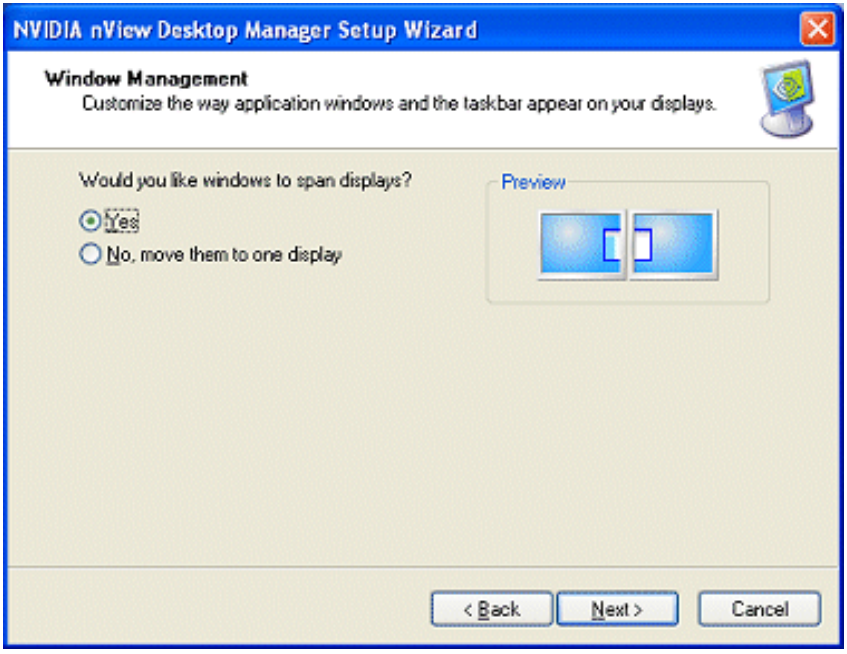



**Figure 4.25** Desktop Management Wizard: Window Management Page (2)

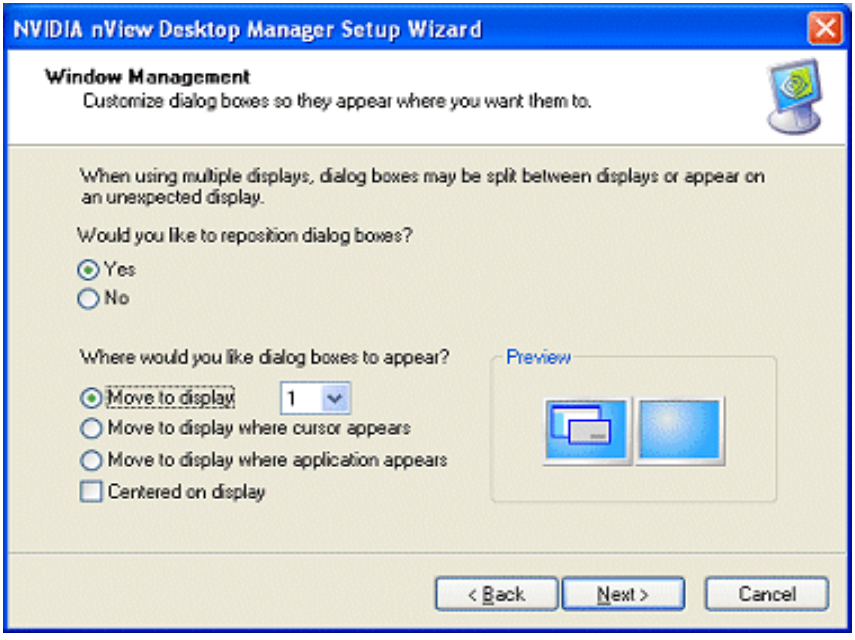


**Figure 4.26** Desktop Management Wizard: Window Management Page (3)

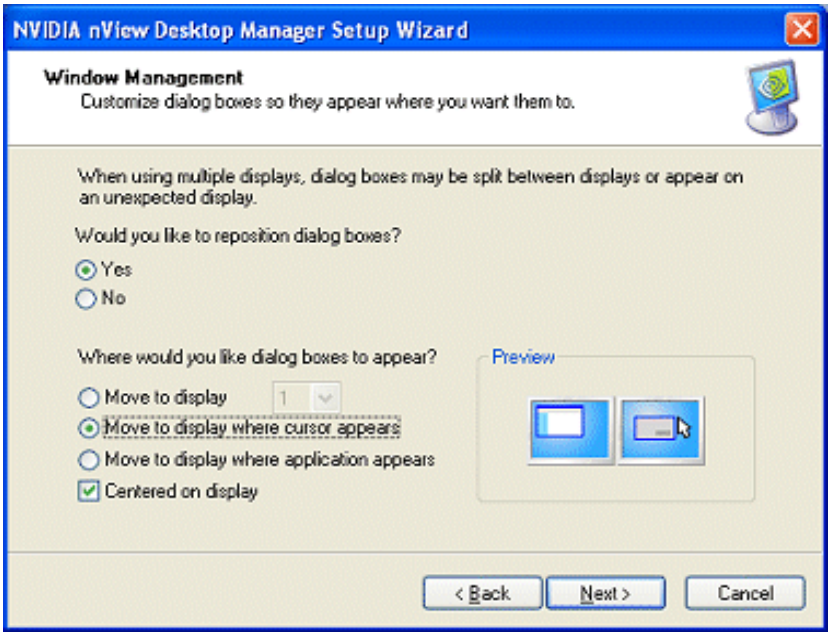



**Figure 4.27** Desktop Management Wizard: Enabling nView Desktop Manager Page (1)

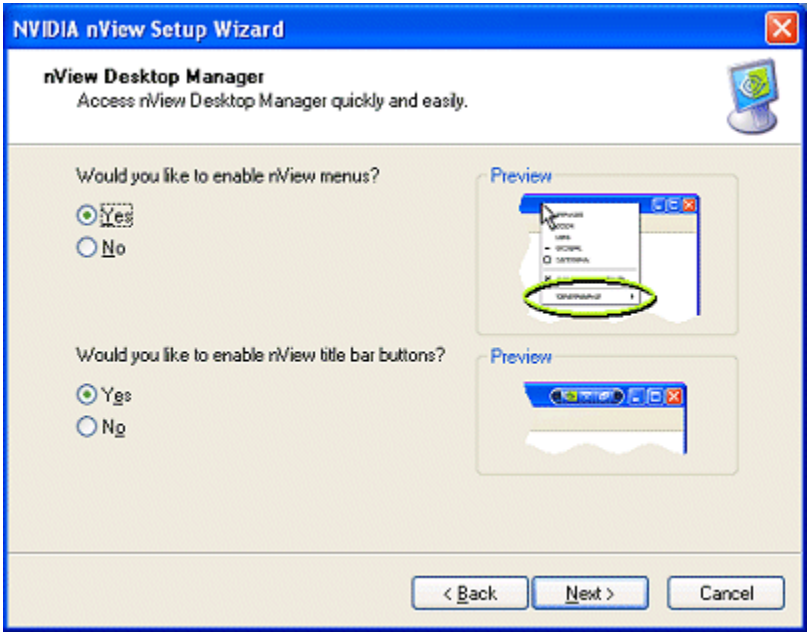


**Figure 4.28** Desktop Management Wizard: Window Transparency Page

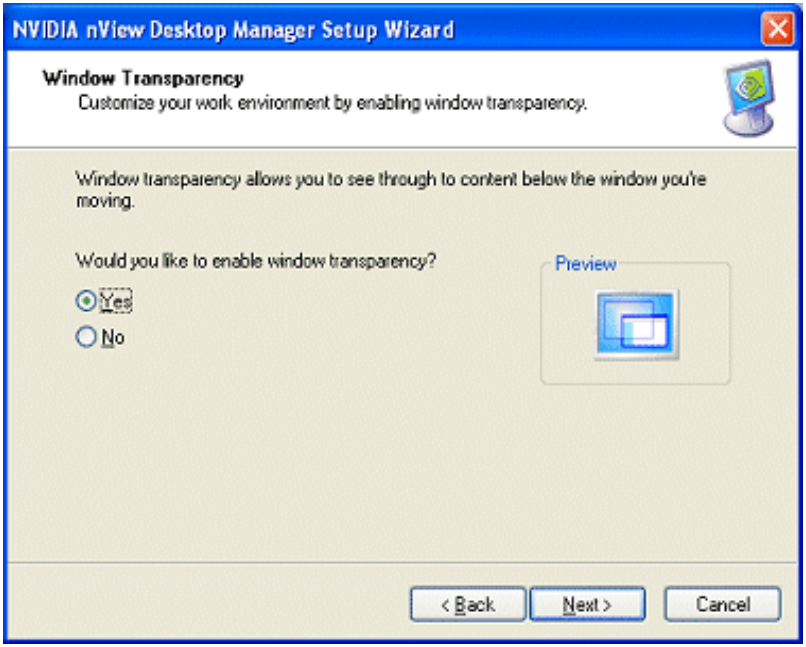
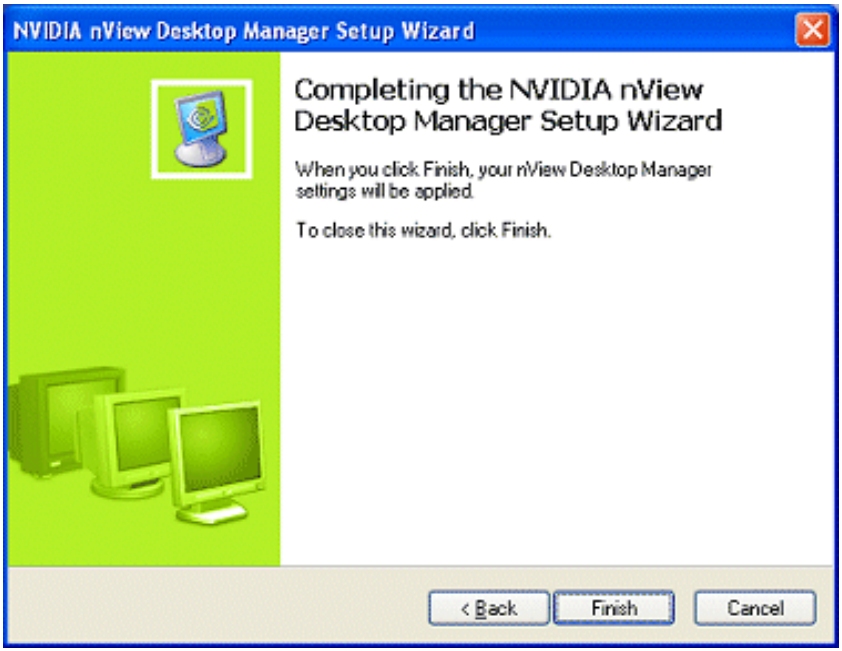



**Figure 4.29** Desktop Management Wizard: Completion Page



# Desktop Management Wizard Pages for NVIDIA Quadro GPU-based Graphics Cards

**Note:** The Wizard pages in this section are available *only* if you have an NVIDIA Quadro GPU-based graphics card installed.

You can access these Wizard pages when you click the **Wizard** option from the Desktop Management panel of the nView Desktop Manager control panel, as sown in Figure 4.2 and Figure 4.3.

**Figure 4.30** Desktop Management Wizard: Profiles Page for NVIDIA Quadro-based GPUs (1)

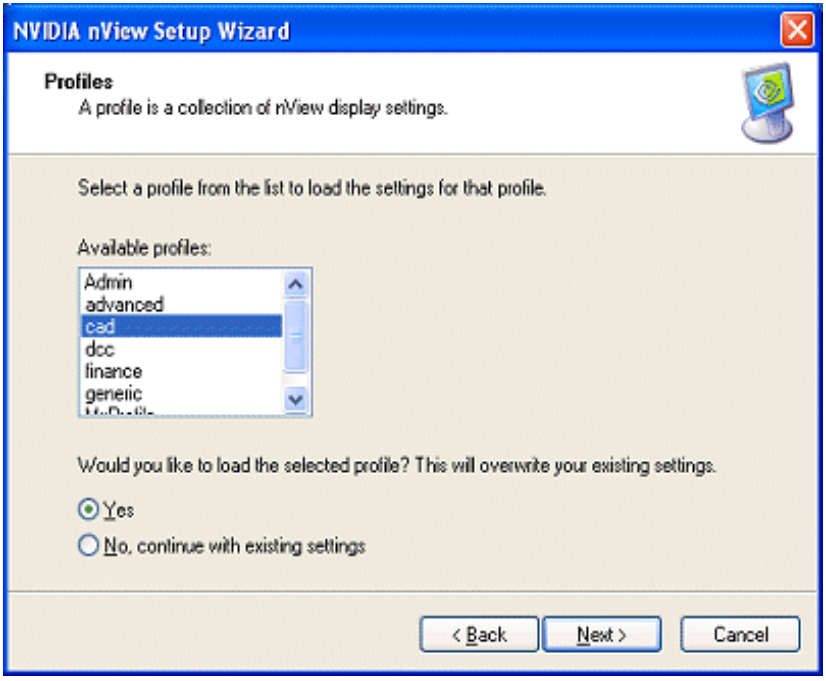
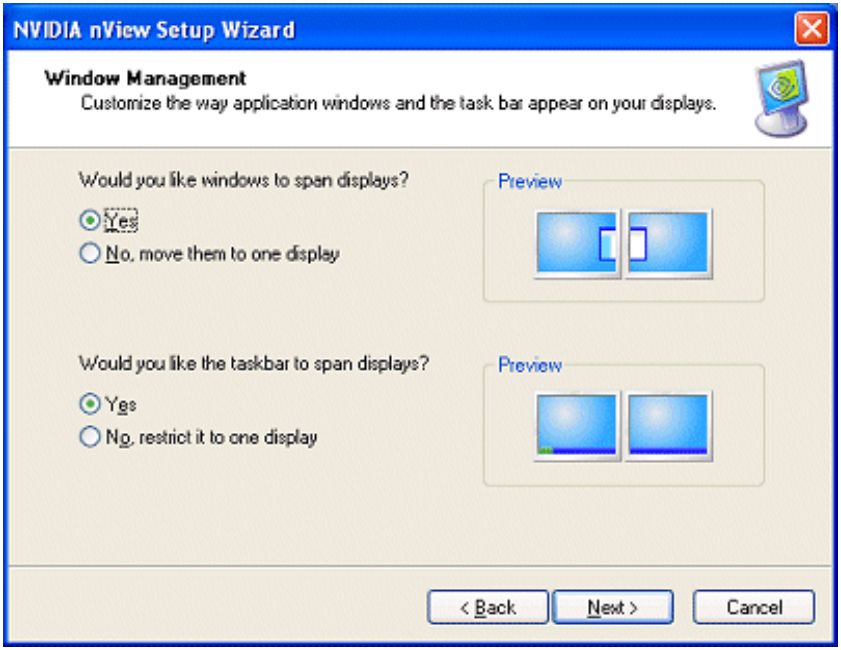


**Figure 4.31** Wizard Window Management Page for NVIDIA Quadro-based GPUs (2)



CHAPTER 5

# ACCESSING AND ENABLING THE NVIEW DESKTOP MANAGER CONTROL PANEL

This chapter contain the following major sections:


- "Overview of Procedure" on page 59:
- "Accessing and Enable nView Desktop Manager from the Windows Control Panel" on page 62
- "Enabling and Accessing Desktop Manager from the nView Display Properties Menu" on page 63
- "Enabling Desktop Manager from the NVIDIA Settings Icon" on page 65
- "Accessing Windows Display Properties Settings" on page 68
- "Troubleshooting" on page 69


## Overview of Procedure

You can access the nView Desktop Manager control panel using any of the following methods:

- Double-click the NVIDIA nView Desktop Manager item from the Windows control panel.
- After enabling nView Desktop Manager, right click on your Windows desktop and choose **Properties**. Then click **Settings** (tab) > **Advanced** > NVIDIA GPU tab > the **Desktop Management** menu option.
- After enabling nView Desktop Manager, right click on your Windows desktop and choose **nView Properties (**Figure 5.1).

Once you have installed the NVIDIA Driver software with the nView Desktop Manager features, you can enable (load) and disable (unload) the Desktop Manager control panel using a variety of methods, as discussed in this section:

1 *After you enable Desktop Manager* (following the instructions in this chapter), you can right click to display the Windows desktop popup (right-click) menu, which will now contain the **nView Properties** option, as shown in Figure 5.1.

**Figure 5.1** nView Desktop Manager Enabled: nView Properties Appear on Desktop Menu

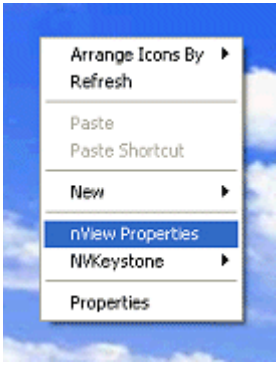
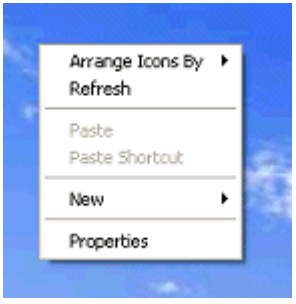



**Figure 5.2** nView Desktop Manager Disabled: nView Properties Removed from Desktop Menu




2 Click **nView Properties** to open the nView Desktop Manager properties panel, which will open on the **Desktop Management** panel, as shown in Figure 5.3 and Figure 5.4.

**Figure 5.3** Desktop Management Panel *After* Enabling Desktop Manager

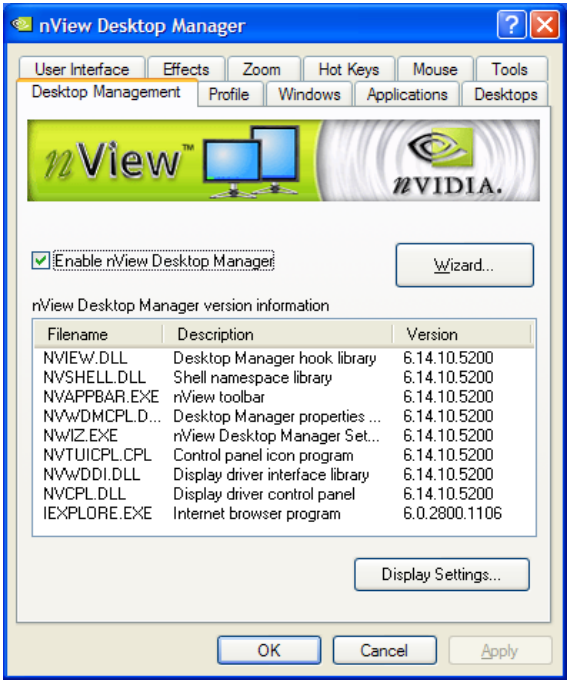
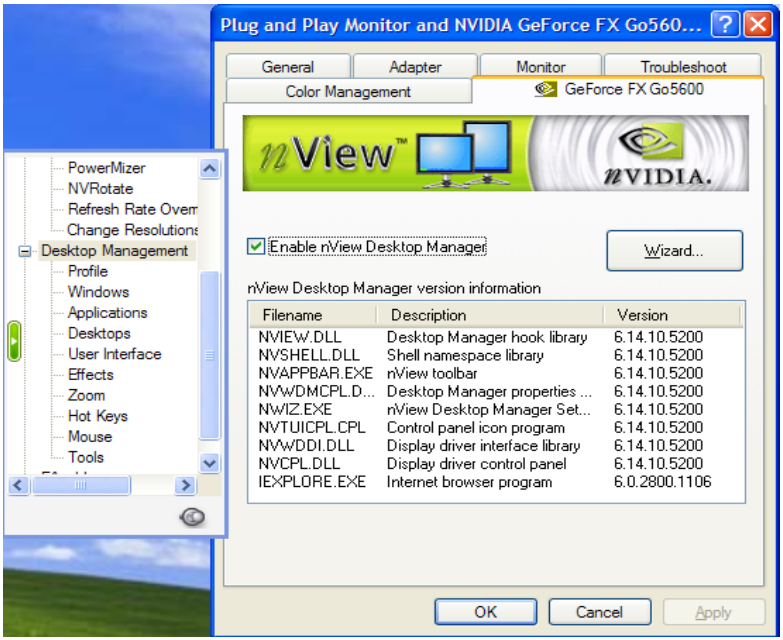



**Figure 5.4** nView Desktop Manager Enabled on the nView Display Properties Menu



**Note:** Several Desktop Manager functions such as performing operations on multiple windows within an application require Desktop Manager to be loaded before you start the application.

**Note:** In the current Release 50 NVIDIA graphics driver, the display properties options and the Desktop Manager options have been consolidated to one menu. Therefore, another way to access and enable nView Desktop Manager is through the Windows Display Properties Settings tab (as explained in a later section).

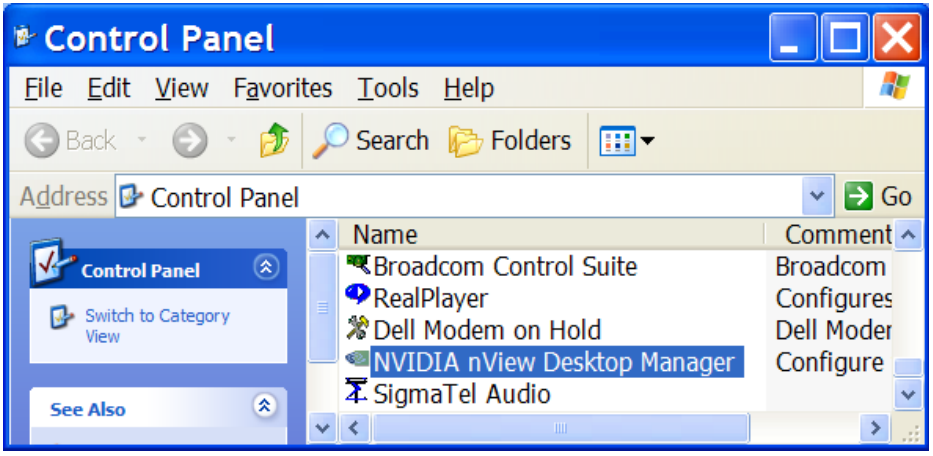
# Accessing and Enable nView Desktop Manager from the Windows Control Panel

To access nView Desktop Manager settings from the Windows Control Panel, follow these steps:

1 From your Windows desktop, click **Start** > **Settings** > **Control Panel**.

2 From the Name column, double-click **NVIDIA nView Desktop Manager** (Figure 5.5) to display the nView Desktop Manager properties panel (Figure 5.6).

**Figure 5.5** Windows Control Panel With NVIDIA nView Desktop Manager Program




3 Click the **Enable nView Desktop Manager** option to check the check box and click **Apply**.

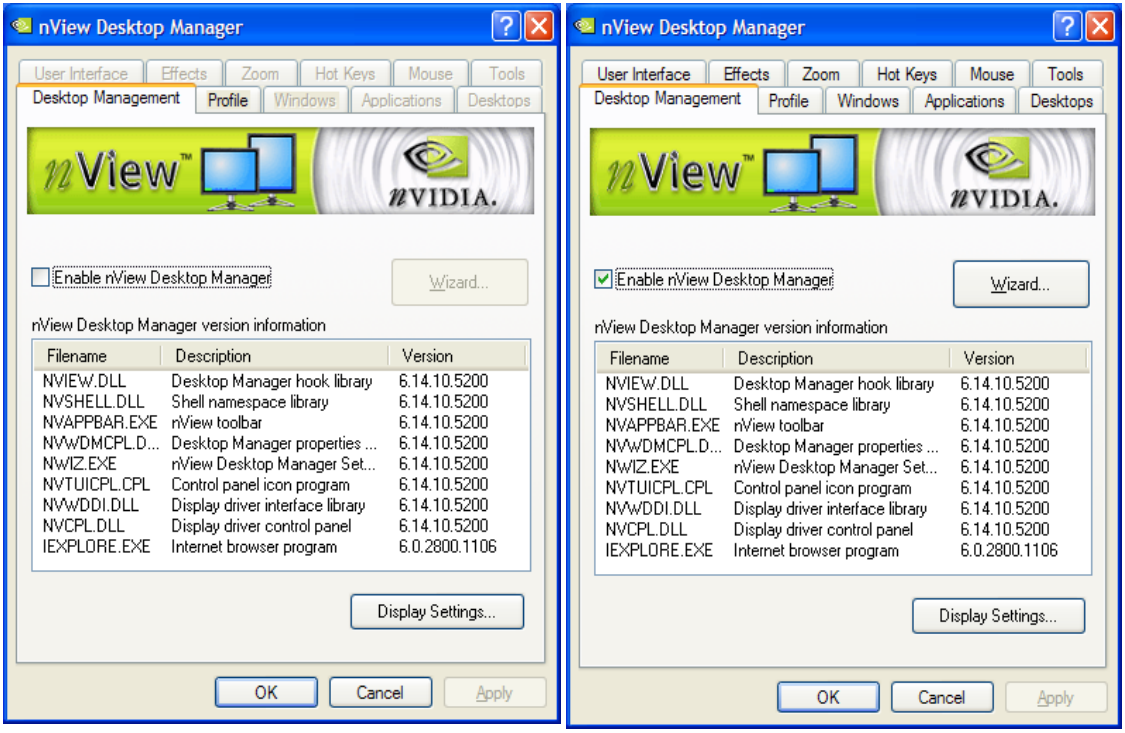
The feature tabs are now all enabled, as shown in Figure 5.6.

4 From your Windows desktop, right click to display the properties menu, which will now contain the **nView Properties** option (Figure 5.1).

In the future, you can click **nView Properties** to open the nView Desktop Manager window shown in Figure 5.6.

5 If you disable the **Enable nView Desktop Manager** check box that you enabled in step 3, the nView Properties option is removed from your Windows desktop menu, as shown in Figure 5.2.

**Figure 5.6** Desktop Management Panel: *Before* and *After* Desktop Manager is Enabled

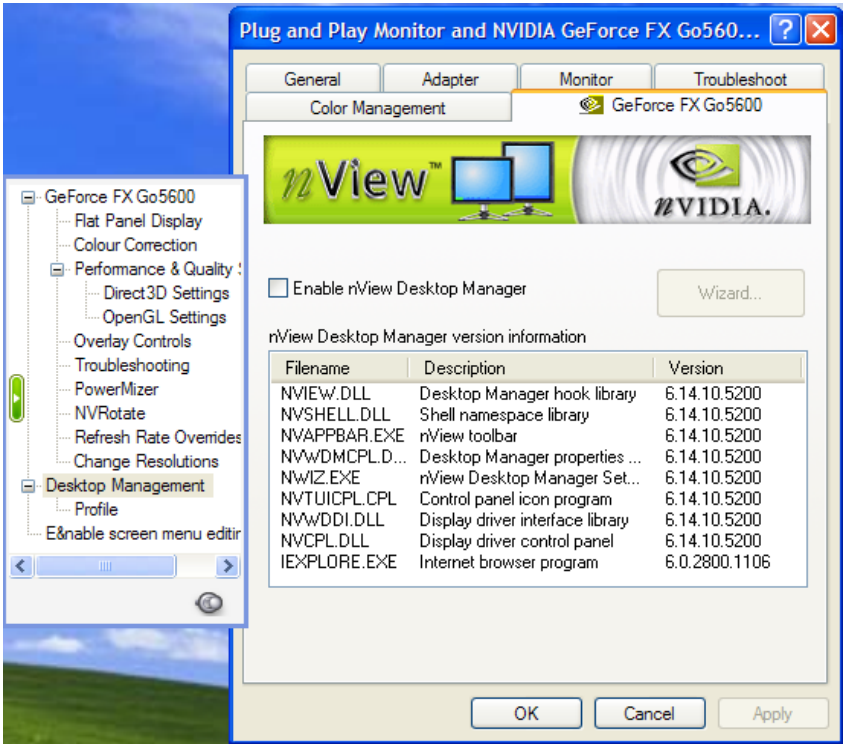



# Enabling and Accessing Desktop Manager from the nView Display Properties Menu

In the current Release 50 NVIDIA graphics driver, the display properties options and the Desktop Manager options have been consolidated to one menu. Therefore, another way to access and enable nView Desktop Manager is through the Windows Display Properties Settings tab, as follows:

1 From your Windows desktop, right click to display the properties menu. Then click **Properties > Settings > Advanced** > the NVIDIA GPU tab and the **Desktop Management** option from the NVIDIA menu that appears (Figure 5.7).

**Figure 5.7** Accessing Desktop Manager from the nView Display Properties Menu

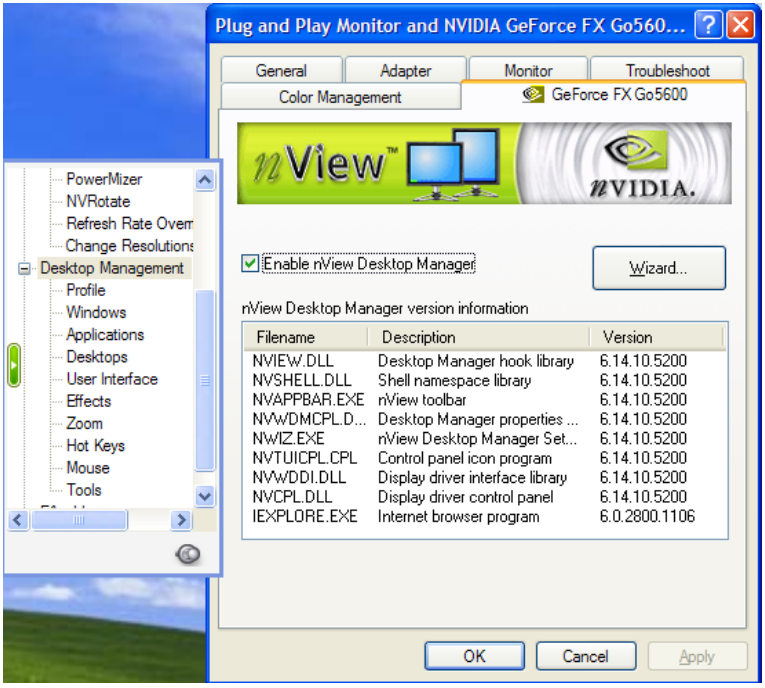



2 Click the **Enable nView Desktop Manager** check box and click **Apply**. Notice that the various Desktop Manager features that previously appeared as *tabs* now appear as menu options (Figure 5.8).

The Windows desktop menu now also contain the nView Properties option (Figure 5.1), from which you can access the *tabbed-style* nView Desktop Manager properties (Figure 5.6).

If you disable the **Enable nView Desktop Manager** check box that you enabled in step 2, the nView Properties option is removed from your Windows desktop menu (Figure 5.2).

**Figure 5.8** nView Desktop Manager *Enabled* on the nView Display Properties Menu



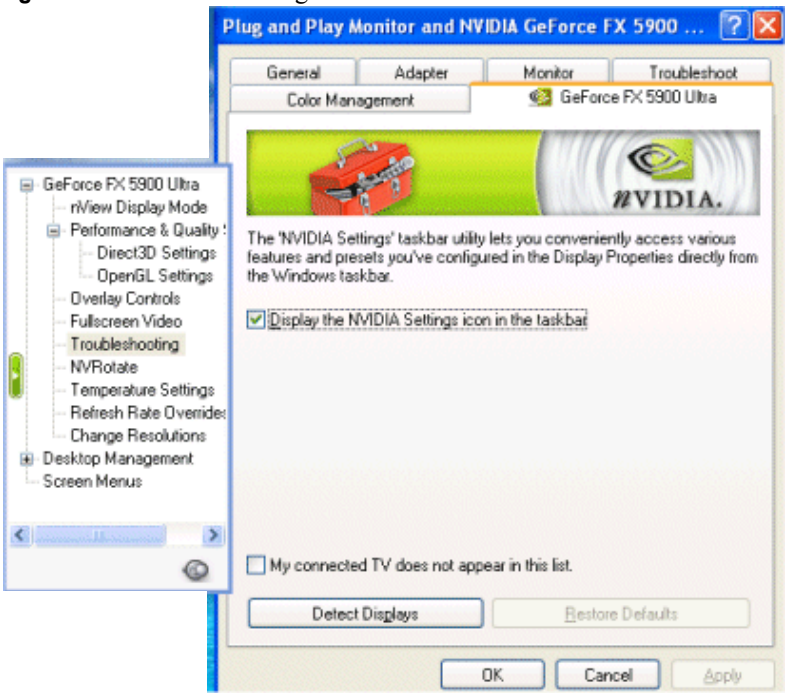

# Enabling Desktop Manager from the NVIDIA Settings Icon

The **NVIDIA Settings** icon lets you enable and access Desktop Manager and also easily access the nView Desktop Manager properties windows, including the feature tabs. Using this icon, you can also access various nView display properties options such, OpenGL, Direct3D, Color Correction, and NVRotate, including the Windows Display Properties Settings panel.

Follow these steps to enable the NVIDIA Settings icon from the nView display properties Troubleshooting panel.

1 Right-click from your desktop to display the properties menu and then click **Properties** > **Settings > Advanced** > the **NVIDIA GPU** tab > **Troubleshooting** option from the NVIDIA menu. Figure 5.9 shows the Troubleshooting panel.

**Figure 5.9** Troubleshooting




1 Click the check box **Display the NVIDIA Settings icon in the taskbar** to enable the options.

2 Click **Apply**. The icon is added to the Windows taskbar as shown in Figure 5.10.

**Figure 5.10** NVIDIA Settings Icon on the Windows Taskbar

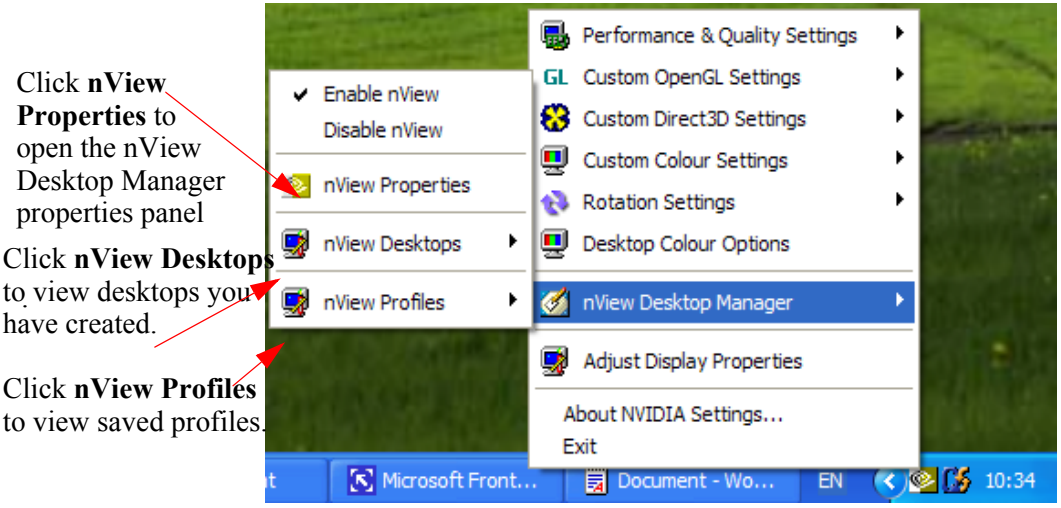
3 From the Windows taskbar, simply right click the NVIDIA Settings icon and then select the options you want from the menu that appears (Figure 5.11).

## Using the NVIDIA Settings icon

To use the NVIDIA Settings icon on the Windows taskbar (Figure 5.11) simply right click the icon and then select the options you want from the menu that appears. The Desktop Manager menu is shown in Figure 5.11.

1 To enable Desktop Manager, right click the NVIDIA Settings icon on the Windows taskbar and click **nView Desktop Manager** > **Enable nView** (Figure 5.11).

**Figure 5.11** NVIDIA Settings icon: nView Desktop Manager Settings




2 Again, right click the NVIDIA Settings icon on the Windows taskbar and click **Desktop Manager** to confirm that the **Enable nView** option is now checked (Figure 5.11).

- You can open the nView Desktop Manager control panel by clicking **nView Properties** from this menu.
- You can view saved profiles by clicking the **nView Profiles** option
- You can view desktops you've created by clicking the **nView Desktops** option.

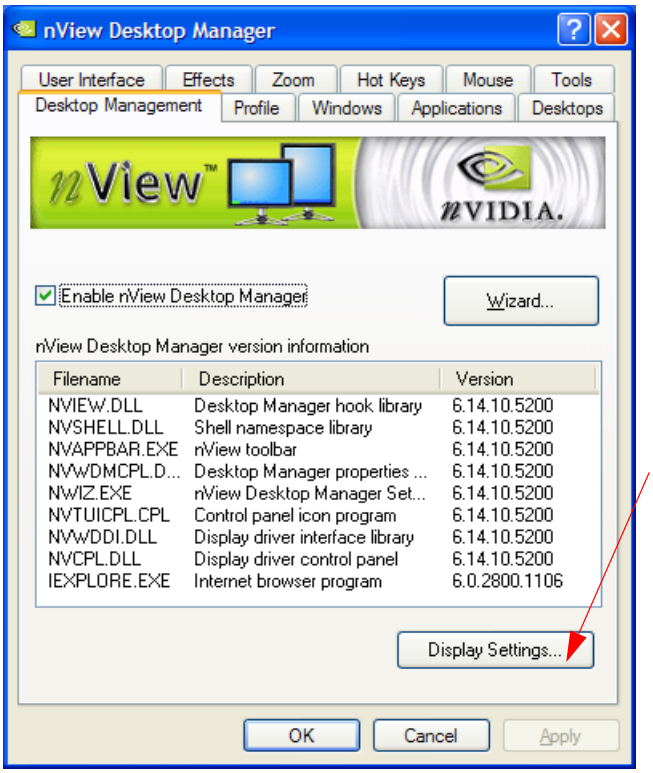
3 To disable Desktop Manager, right click the NVIDIA Settings icon on the Windows taskbar and click **Desktop Manager** > **Disable nView**.

4 Again, right click the NVIDIA Settings icon on the Windows taskbar and click **Desktop Manager** to confirm that the "**Disable nView**" option is now checked.

# Accessing Windows Display Properties Settings

From the **Desktop Management** panel, click the **Display Settings . .** option (Figure 5.12) to access the Windows Display Properties Settings panel.

**Figure 5.12** Desktop Management Panel: Accessing the Windows Display Properties Settings Panel



# Troubleshooting

If you have trouble accessing the nView Desktop Manager properties panel, verify that a current version of the NVIDIA graphics driver software is installed on your system. You can follow these steps to verify this:

1. From your Windows desktop, right click to display the properties menu and then select **Properties** > **Settings** tab to access the Display Properties Settings panel.

   The "Display" field shows the name of your NVIDIA-GPU based graphics card; for example, "*Monitor name* on NVIDIA Quadro2 MXR/EX".

2. Click **Advanced** and the NVIDIA GPU tab.

3. Verify that the "Driver Version Information" box lists the most recent versions of the NVIDIA driver files. Scroll down to confirm that all files have the same version number. If there's any discrepancy, make sure you or your system administrator uninstalls the NVIDIA driver software according to the instructions in "Uninstalling the Graphics Driver" on page 32 and then reinstall the software.

**Note:** Make sure that the file `nvdesk32.dll` does not appear on the Driver Version Information list of files. This file is now obsolete and can result in inconsistencies. If you see this file, uninstall the NVIDIA graphics driver software and then re-install a current version.

CHAPTER 6

# WORKING WITH PROFILES

This chapter discusses the following topics:


- "About Profiles" on page 70
- "Benefits of Using Profiles" on page 72
- "Profiles Options" on page 73
- "List of Profiles" on page 74
- "Current Profile" on page 75
- "Loading a Profile" on page 75
- "Creating a Profile" on page 75
- "Saving a Profile" on page 77
- "Deleting a Profile" on page 77
- "Copying Profiles for Use on Another Computer" on page 78


## About Profiles

Profiles features can be used on both single-display and multi-display computer setups.

**Note:** Under Windows XP/2000 and Windows NT 4.0, certain options such as creating, saving and exporting, and deleting profiles are only available to users with Administrator access rights.

Using Profiles options, you can save all your Desktop Manager settings into a single file called a *profile*. To change how your desktop functions, you can

subsequently load these profiles with a single "hot key" keystroke or by clicking **Load Profile**.

A profile can contain all of the settings for nView Desktop Manager, including multiple desktops and their backgrounds, individual (application) settings, user interface settings, NVKeystone settings, window management settings, *and* **display mode** settings (e.g., screen resolution, screen refresh rate, etc.).

A profile can also contain:

- Graphics driver settings (color settings, OpenGL settings, etc).
- A set of applications to launch when loaded (i.e., saving open application states).

  **Note:** "Open application state" saving is available with GeForce-based graphics cards, but with a limitation -- up to eight applications states can be saved and loaded. Quadro-based graphics cards have no limits to the number of applications that can be saves and loaded.

Profiles are a "snapshot" of all your Desktop Manager settings. There is never an "active" profile; instead, you can reload your Desktop Manager settings "snapshot" and then edit it if you need to modify the settings any time in the future. For example, if you switch computers, upgrade your operating system, or are configuring an office, you can simply save all your settings to a profile and then load those settings on any computer that you want.

**Note:** The profile file is not updated as you change Desktop Manager settings. Use the **Save Profile** option to update the profile with your new Desktop Manager settings.

**Note: If you are using an NVIDIA Quadro GPU-based graphics card**, the nView Desktop Manager installation comes with several pre-defined profiles to get you started quickly. These profiles contain the basic settings for different user levels and industries. You can start with one of these pre-defined profiles and tailor it to your own needs.

**Note:** Under Windows XP/2000 and Windows NT 4.0, several profile-related options are available to only those users with Administrator access rights.

## About Saving and Restoring Your Display Mode Information

As mentioned previously, profiles can save and restore your display mode information, including the number and position of enabled display device, each display device's refresh rate, resolution, color depth, etc.

**Note:** Note, however, that unlike desktop management settings, display mode settings are dependent upon the hardware in your computer and thus may not work when transferred between computers. For example, if a profile was saved with display mode information on a computer that had four displays connected and is then copied to a computer that has only two displays connected, then loading this profile on the two-display computer will not restore the display mode because the physical hardware (i.e., four displays) does not exist on the computer.

## About Saving Open Application States: For Quadro-based GPUs *only*

**Note:** Beginning with the current NVIDIA Release 50 driver under NVIDIA Quadro-based GPUs only, profiles can also save and load the open application states.

- A snapshot of all running applications on the system is taken including size, position, window state, and desktop. When this profile is loaded, all of these applications are restored to their proper positions.
- Microsoft Internet Explorer, Windows Explorer, Office, and Exceed applications can also have their data state saved when a profile is saved and restored (when the profile is loaded) including the file/URL/Unix application with which the application may have been working.

**Note:** If you save with four Internet Explorer windows open and restore while you have two Internet Explorer windows open, only two new Internet Explorer windows will load.

# Benefits of Using Profiles

Using Profiles features, you can tailor different Desktop Manager modes to more closely match your operating needs and then easily switch between profiles with a hot key.

You can use profiles to quickly switch your system configuration, depending on your needs.

- For example, if you have a notebook computer that is sometimes docked with an extra display device and sometimes undocked, you may want to have dialog boxes pop up on the notebook computer's screen while undocked but while docked, have dialog boxes appear on the extra display device. In this case, you can set up two profiles on your system; a docked version and an undocked version with different settings. When you switch configuration (i.e., dock or undock your notebook computer), you can load your configuration with a single keystroke.

  **Note:** The loaded profile can also include turning on or off an external display connected to your notebook computer.

- If you work in a company with an IT department, profiles are even more useful. For example, a System Administrator can define a custom Desktop Manager mode and roll it out in one step to a department or other defined group in the company rather than have to configure each workstation separately. This can help reduce training and support costs since everyone within a group or department can use a common Desktop Manager configuration that is tailored for their needs.

# Profiles Options

1. If you need help accessing the nView Desktop Manager control panel, see "Accessing and Enabling the nView Desktop Manager Control Panel" on page 59.
2. Click the **Profiles** tab or menu option to display the nView Desktop Manager Windows panel.

**Note:** Creating (**New Profile**), saving and exporting (**Save Profile**) and deleting profiles (**Delete Profile**) are only available to users with System Administrator access privileges.

**Note:** If you are using an NVIDIA Quadro GPU-based graphics card, additional pre-defined profiles are provided by NVIDIA and viewable on the Profiles panel.

**Figure 6.1** Profiles Panel for NVIDIA GeForce-based GPUs

# List of Profiles

When you go to the Profiles panel, you will see a list of profiles available for loading. Each profile in the list may have one of two icons next to it – a lock/unlock icon (closed or open padlock) and a monitor icon.

- A **locked profile** cannot have any settings modified when it is loaded. If you load a locked profile, you will not be able to change your nView settings until an unlocked profile is loaded. Unlocked profiles have no restrictions.
- **If a profile has a monitor icon next to it**, this means that there is display mode information stored in the profile. See Creating a Profile" below for more information.
- **If a profile has a application icon next to it**, this means that application states have been saved within this profile. See Creating a Profile" below for more information.

# Current Profile

The "Current Profile" label (shown in Figure 6.1) simply displays the name of the last profile you have loaded or saved.

The Profiles panel example in Figure 6.1 shows the Current Profile as "generic" because generic is highlighted in the list.

# Loading a Profile

You can select a profile from the list and select **Load Profile** to load the profile.

**Note:** You may see additional profiles set up specifically for your company or organization if your System Administrator has set up custom profiles and/or if you are using an NVIDIA Quadro GPU-based graphics card.

# Creating a Profile

Click **New Profile** to create, name, and add a new profile that contains all of the current nView settings. Once saved, you can reload this profile at any time.

Figure 6.1 show the New Profile dialog box. You can include many NVIDIA graphics driver options and nView Desktop Management options in the profile by enabling those options in the New Profile dialog box.

If nView Desktop Manager cannot locate the hardware to support the display mode stored in the profile (for example, the profile mode information is to turn on four display devices but the computer that is loading the profile only has two display devices connected), then the display mode loading will silently fail. However, note that the nView Desktop Managements settings in the profile will be loaded.

**Figure 6.2** Creating a New Profile

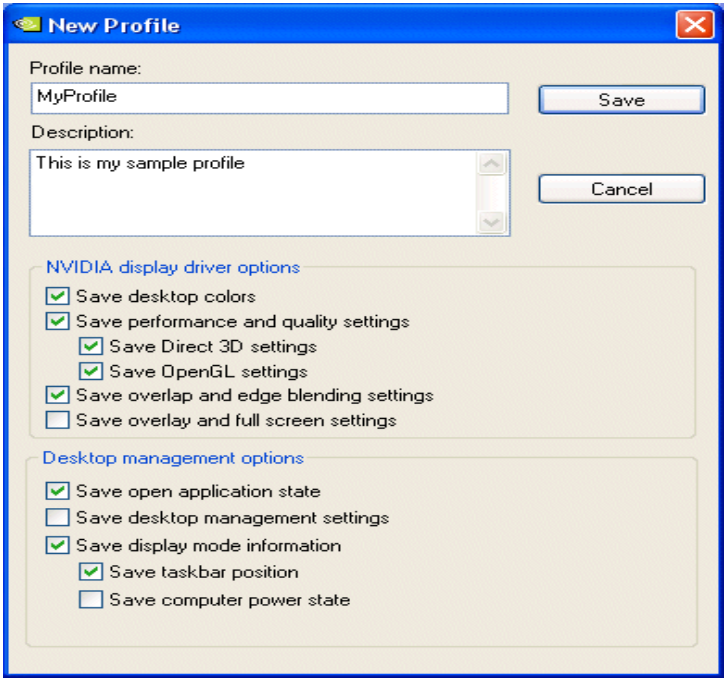
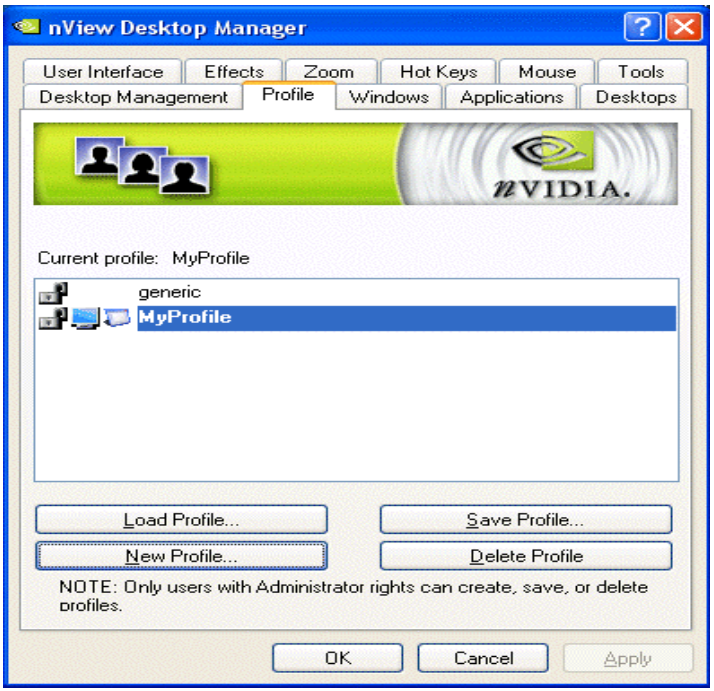



**Figure 6.3** Profiles Panel After Adding a Profile



# Saving a Profile

**Note:** Under Windows NT 4.0 or Windows XP/2000, only users with System Administrator privileges can save (export) profiles.

The **Save Profile** option lets you overwrite the existing selected profile with your current nView Desktop Manager settings.

- Predefined nView Desktop Manager (`.tvp`) profile files are saved in the `Windows\nView` directory.
- Under Windows 2000/XP, new profiles that you create are saved in the `Documents and Settings\All Users\Application Data\nView_Profiles` directory.
- Once saved, you can reload this profile at any time.
- When you are saving to the profile selected from the list, a warning message indicates that you are about to overwrite the selected profile.

  Click **Yes** to continue; otherwise, click **No**.

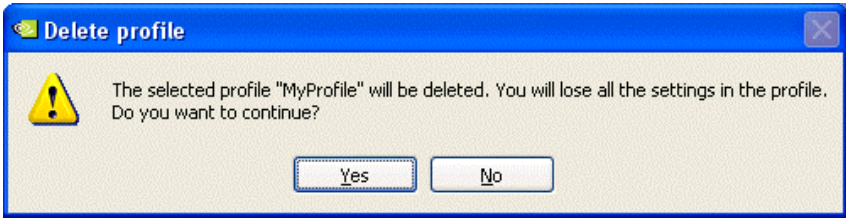
# Deleting a Profile

The **Delete Profile** option lets you to delete the selected profile.

**Note:** Under Windows NT 4.0 or Windows XP/2000, only users with System Administrator privileges can delete profiles.

**Note:** When you are deleting the profile, a warning message indicates that you are about to lose all the settings in the selected profile you are about to delete. Click **Yes** to continue with the deletion process; otherwise, click **No**.

**Figure 6.4** Deleting a Profile



# Copying Profiles for Use on Another Computer

A profile is simply a Desktop Manager data file. Therefore, it can be copied and pasted like any other file. Profile files are located in the `Windows\nView` directory on your hard disk and have a `.tvp` extension.

To copy a profile file for use on another system, follow these steps:

1. From the `Windows\nView` directory on your hard disk, copy the `.tvp` profile file you want to a desired location, such as a diskette (in drive A:) or other network location.
2. Then, be sure to paste this file to the `Documents and Settings\All Users\Application Data\nView_Profiles` directory on the computer where you plan to load this profile.
3. When you access the Desktop Manager Profiles settings on this new computer, you will see the name of the profile you just copied.
4. Select the profile and click **Load Profile** to load this profile.

CHAPTER 7

# MANAGING WINDOWS

This chapter discusses the following major topics:


- "About Windows Options" on page 79
- "Windows Panel Options" on page 80
- "Window Settings" on page 81
- "Dialog Box Settings" on page 82


## About Windows Options

The nView Desktop Manager **Windows** panel contains features that only apply to multi-display configurations.

**Note:** The options on this panel will be disabled (grayed) if you are using only one display.

A key benefit of using windows management features is that you no longer have to spend your time resizing, relocating, or searching for windows because you can specify how you want your windows to function. You can specify how you want windows to operate on your desktops and/or display devices.

For example, when you maximize an application under Span mode, it stretches across all display devices, which can be quite inconvenient. Using Windows management features, you can change this functionality to make the window only maximize to a single display device. Conversely, under Dualview mode, where windows normally maximize to a single screen, you can make applications maximize to the entire desktop.

# Windows Panel Options

1 If you need help accessing the nView Desktop Manager control panel, see "Accessing and Enabling the nView Desktop Manager Control Panel" on page 59.

2 Click the **Windows** tab or menu option to display the nView Desktop Manager Windows panel.

**Note:** Under **nView Standard and Clone modes**, the options on the Windows panel will be disabled (grayed out) because they do not apply in those nView modes.

**Figure 7.1** Windows Panel in nView Dualview Mode

Options available in **nView Dualview** mode

Additional option available in **nView Span** mode

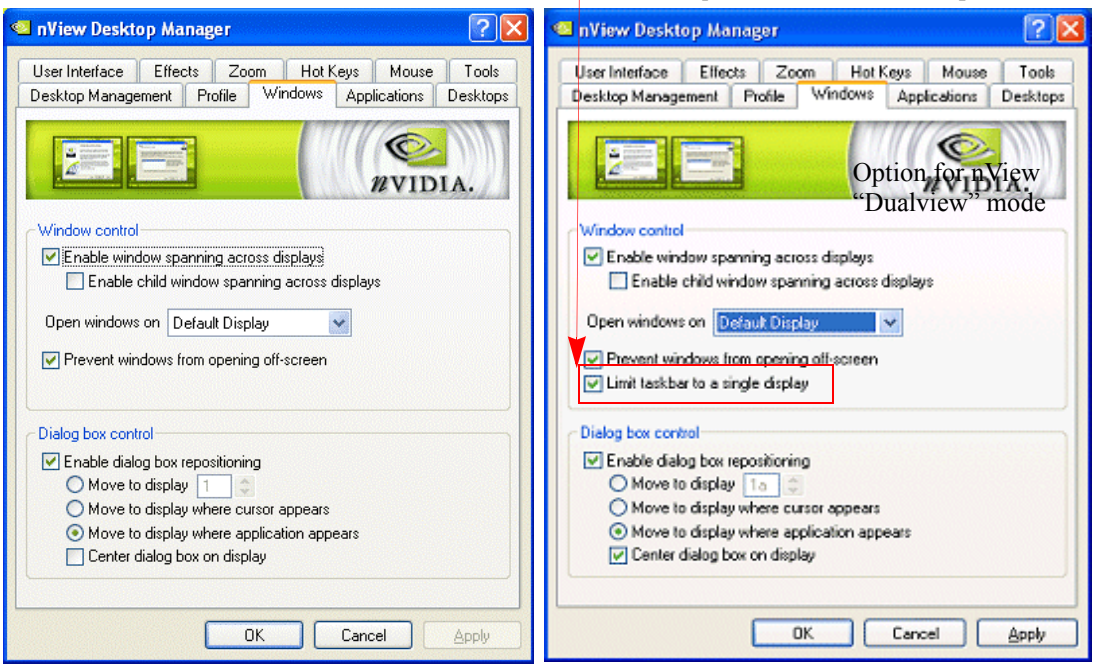
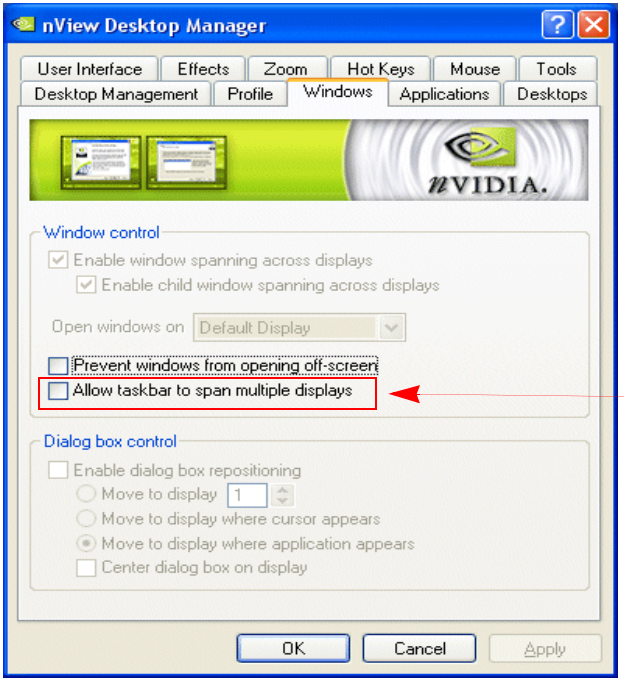



Figure 7.1 shows the nView Desktop Manager **Windows** panels. The panel image on the right shows an option specific to nView Horizontal or Vertical Span mode.

**Note:** Windows options do not apply, and therefore are not available, in **nView Clone** mode.

Figure 7.2 shows options that are specific to NVIDIA Quadro-based GPUs.

**Figure 7.2** Windows Panel Options for NVIDIA Quadro-based GPUs




# Window Settings

**Note:** Be sure to click apply after enabling any of the below settings.

## Enable Window Spanning Across Displays

This option allows windows to span (appear across) displays. When the option is disabled, all windows are prevented from spanning displays.

**Default:** Option is *enabled* (checked).

### Enable child window spanning across displays

To access this option, you must first activate the **Enable window spanning across displays** option.

**Note:** If you disable this option, all child windows are prevented from spanning displays even if the parent window does.

**Default:** Option is *enabled* (checked). This means that child windows *can* span displays.

### Open window on

This option allows you to set the display device on which you want applications to open, by default.

To select the display on which you want to open application windows, click the list and select an item.

- **Default display**
- **Last display** is the display upon which you closed the application.

  **Note:** If you select **Last display**, the application state (including the application window *maximize* or *collapse* state) is also restored when the application opens.
- **Start display** is the display containing the **Start** button.

### Prevent windows from opening off-screen

Enable this option to prevent windows from opening off the screen.

### Limit taskbar to a single display

**Note:** This option is available only when your nView Display Mode panel is set to **nView Horizontal** or **Vertical Span mode**. It does not apply under nView Dualview mode and therefore is not available.

When this option is enabled, you can limit the taskbar to a single display instead of having it stretched across displays.

**Default**: The option is disabled (unchecked).

# Dialog Box Settings

**Note:** Be sure to click **Apply** after enabling any of the below settings.

## Enable dialog box repositioning

This option lets you specify the location of dialog boxes.

**Default:** Option is *disabled*.

### Move to display *n*

Enable this option and then specify the display device (click the up/down arrow to specify the display device number) to which you want to move dialog boxes.

### Move to display where cursor appears

Enable this option if you want to move dialog boxes to the display device that contains your cursor.

### Move to display where application appears

Enable this option if you want to move dialog boxes to the display device that contains your application.

### Center dialog box on display

Enable this option (check box) to force dialog boxes to be centered on their target display.

CHAPTER 8

# MANAGING DESKTOPS

The following major topics are discussed in this chapter:


- "About Desktops Options" on page 84
- "Accessing the Desktops Tab" on page 85
- "Notes Before You Begin" on page 86
- "Desktops List" on page 86
- "Creating Desktops" on page 86
- "Activating or Switching Desktops" on page 88
- "Renaming Desktops" on page 90
- "Removing Desktops" on page 90
- "Properties: Changing Wallpaper and Desktop Icons" on page 90
- "Using nView Desktop Explorer" on page 95
- "Advanced Options" on page 103


## About Desktops Options

You can use the Desktop Manager "Desktops" tab to create and configure up to 32 different "virtual" desktops whether you are using a single monitor or multiple monitors.

If you are using a single monitor, you can create a lot of space by distributing one or more applications among different desktops to prevent application clutter on your window. Desktop Manager reduces your desktop clutter by letting you easily move applications to other desktops thus avoiding the need to open/close

or minimize/maximize applications in order to navigate between them. So, window clutter is reduced without compromising performance or using extra keystrokes.

You can assign customizable names to desktops you create and easily switch between desktops using assigned hot keys, the Windows Explorer-based Desktop Explorer, or even the NVIDIA Settings icon, as explained later in this chapter.

A variety of methods to create, customize, manage, rename, remove, and switch between multiple desktops, as well as easily move applications from one desktop to another are discussed in this chapter.

# Accessing the Desktops Tab

1. If you need help accessing the nView Desktop Manager control panel, see "Accessing and Enabling the nView Desktop Manager Control Panel" on page 59.
2. Click the **Desktops** tab or menu option to display the nView Desktop Manager **Desktops** panel (Figure 8.1).

**Figure 8.1** Desktops Panel

# Notes Before You Begin

- Desktop options **Add**, **Properties**, **Rename**, and **Remove** take immediate effect when clicked.
- Each desktop is identified by a name and can have optional customizations, such as independent backgrounds or icons that identify the desktop in menus and in the Desktop Explorer.
- Windows Control Panel-based nView (Desktop Manager) Properties, command prompt windows, and modal dialog boxes are visible on all desktops. All other applications, by default, launch *only* on the active desktop unless you have set up individual settings for the application.
- nView does not support different resolutions per desktop. All desktops are automatically set at the same resolution.
- The type of background (wallpaper) selected for your desktop can significantly affect how fast you can switch from one desktop to another. For further details, see the "Note" in "Properties: Changing Wallpaper and Desktop Icons" on page 90.

# Desktops List

The Desktops list box displays a list of all currently available desktops.

- Desktop Manager maintains a minimum of one desktop and a maximum of 32 desktops. By default, there is always one desktop named "Default"; this is the desktop on which you start up.
- The Default desktop is listed first, followed by all other desktops in alphabetical order.

**Note:** If you disable Desktop Manager, you are returned to the Default desktop and all open windows are moved to the Default desktop.

# Creating Desktops

Multiple desktops can be created either from Desktops panel using the "**Add**" option, as explained below, or the Explorer shell extension.

Each desktop can be assigned a unique name.

**Note:** You cannot add duplicate desktop names.

## Using the "Add" Option

1 From the Desktops panel (Figure 8.1), click **Add**. The "Create a new desktop" dialog box prompts for a name of the new desktop (Figure 8.2).

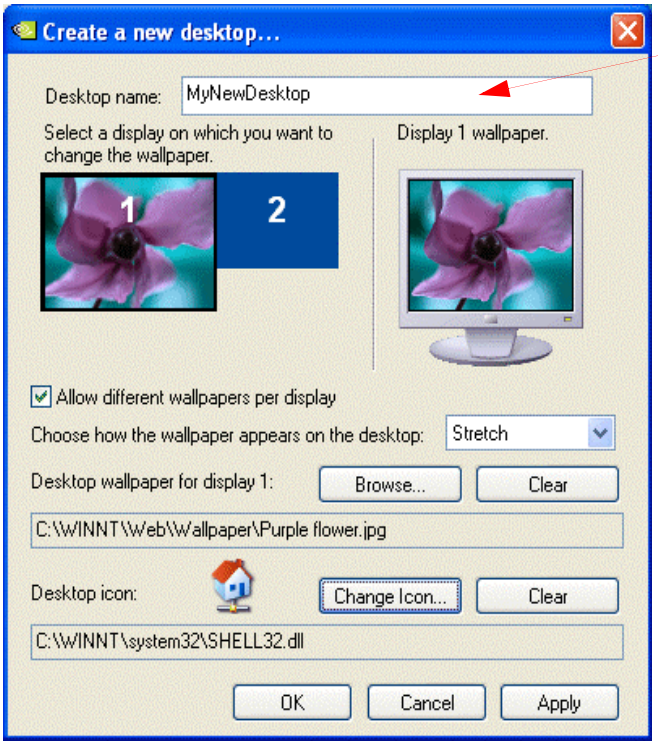
2 If you want to add a Wallpaper background and/or assign the desktop a unique "Icon", go the next steps.

Otherwise, click **OK** to complete adding the desktop and return to the Desktops panel where you will see the new desktop added to the Desktops list.

3 After you enter the desktop name, *optionally,* you can assign the desktop a Wallpaper background and/or assign the desktop a unique icon.

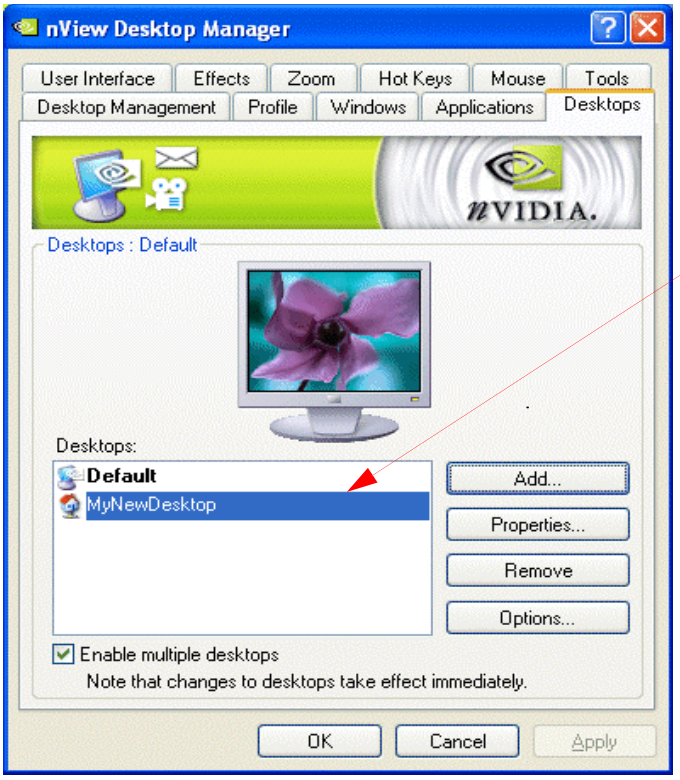
For details, see "Selecting a Background for the Desktop" on page 91, "Selecting Separate Backgrounds Per Display" on page 92, or "Selecting a Desktop Icon" on page 92

**Figure 8.2** Creating a Desktop




**Note:** If you have checked the **Enable Desktop Explorer** option from the Multiple Interfaces tab, you can also use the Desktop Explorer node in the Windows Explorer to create desktops. *See* "Creating Desktops from Desktop Explorer" on page 102.

**Figure 8.3** Viewing the Added Desktop




# Activating or Switching Desktops

From the “Desktops” tab, double-click the desktop you want to activate from the list of desktops.

**Note:** The type of background (wallpaper) selected for your desktop can significantly affect how fast you can switch from one desktop to another

For further details, see the “Note” in “Properties: Changing Wallpaper and Desktop Icons” on page 90.

You can also use a variety of other methods to switch between desktops as discussed in these sections:

- “Activating Desktops from the NVIDIA Settings icon” on page 89
- “Activating Desktops From the Windows Desktop Properties Menu” on page 89
- “Activating Desktops from Desktop Explorer” on page 90

• "Activating Desktops With Hot Keys" on page 90

## Activating Desktops from the NVIDIA Settings icon

To activate desktops from the NVIDIA Settings icon (Figure 8.4), follow these steps:

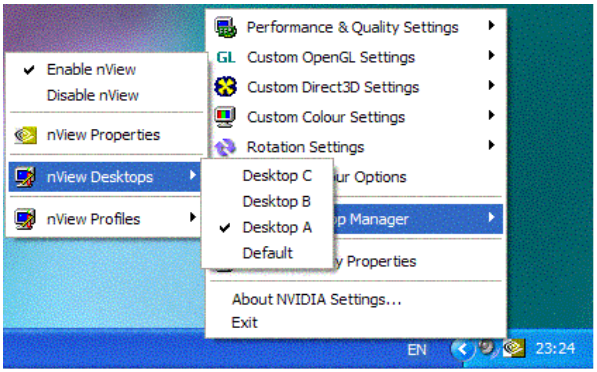
**Figure 8.4** NVIDIA Settings icon

1 Right click the NVIDIA Settings icon from the Windows taskbar, choose **Desktop Manager** > **nView Desktops** to display the list of your desktops. Figure 8.5 shows an example of a list of desktops.

**Note:** If nView Desktop Manager is disabled, you cannot access the nView Desktops option. In this case, right click the NVIDIA Settings icon from the Windows taskbar, click **Desktop Manager** > **Enable nView**. Again, right click the NVIDIA Settings icon from the Windows taskbar, then click **nView Desktops**.

2 Choose the desktop you want to activate.

**Figure 8.5** Accessing Desktops Through the NVIDIA Settings icon




## Activating Desktops From the Windows Desktop Properties Menu

1 Confirm that Desktop Manager is enabled.

2 Right click from your Windows desktop to display the properties menu.

3 Choose **nView Desktops** to view a list of your desktops.

4 Choose the desktop you want to activate.

### Activating Desktops from Desktop Explorer

See "Renaming, Deleting, and Activating Desktops from Desktop Explorer" on page 96.

### Activating Desktops With Hot Keys

See "Using Hot Keys" on page 150.

## Renaming Desktops

Click **Rename** to rename the selected desktop from a text-input dialog box where you can type in a new name for the selected desktop.

**Note:** You cannot rename the Default desktop.

You can perform the same function from the Desktop Explorer; see "Renaming, Deleting, and Activating Desktops from Desktop Explorer" on page 96.

## Removing Desktops

Click **Remove** to remove the selected desktop from the list.

Once you delete a desktop, it is removed from the list of desktops. The applications on the deleted desktop now move to the Default desktop.

**Note:** You cannot remove the startup (or *default*) desktop.

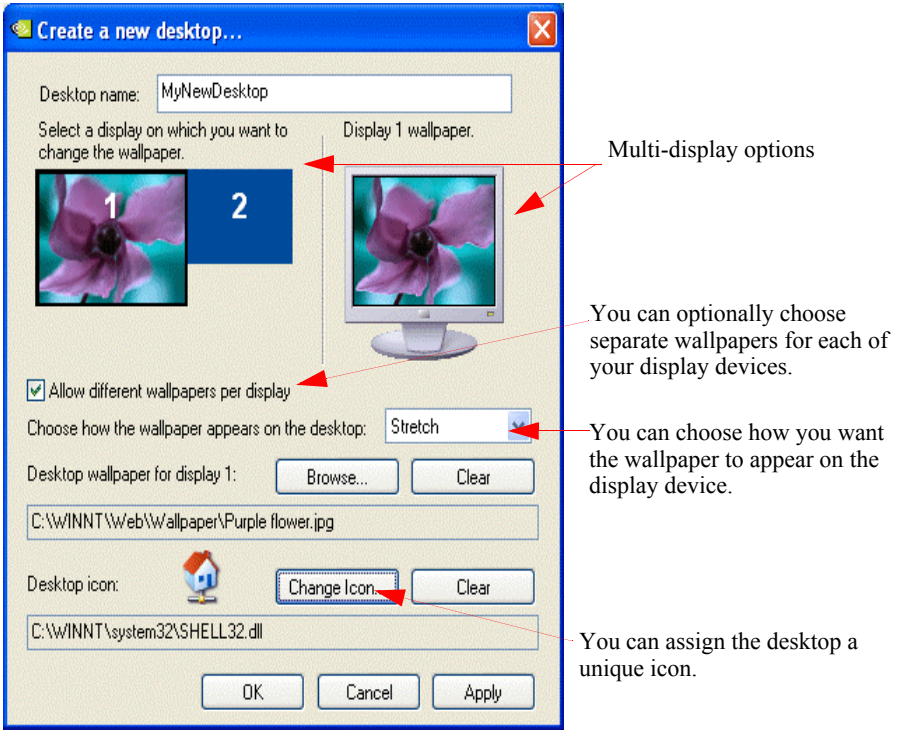
You can perform the same function from the Desktop Explorer; see "Renaming, Deleting, and Activating Desktops from Desktop Explorer" on page 96.

## Properties: Changing Wallpaper and Desktop Icons

The **Properties** option lets you change the background of the selected desktop and assign an icon to represent the desktop.

1. From the Desktops panel, select the desktop for which you want to change the background and/or icon.
2. Click **Properties** to open a dialog box where you can set or change the background wallpaper and icon. From this dialog box, you can perform the following *optional* tasks, as shown in Figure 8.6:
   - Browse for different wallpapers (graphics files)
   - When using multiple display devices, choose separate wallpapers for each display device.

**Figure 8.6** Changing Properties for Multiple Displays




- Set the wallpaper style (tiled, centered, stretched)
- Set set the desktop icon.

## Selecting a Background for the Desktop

1 To assign a background to the desktop, click **Browse**.

2 Select a graphics file to use.

**Note:** The type of background (wallpaper) you select for your desktop can significantly affect how quickly you can switch from one desktop to another. Desktop switching performance from fastest to slowest based on types of desktop backgrounds is listed below:

| Type of Desktop Background | Fastest to Slowest Desktop Switching Speed |
|---|---|
| None | Fastest |
| Bitmap | Faster |
| Active desktop bitmap | Fast |
| Active desktop `.JPEG` file | Slower |
| Active desktop `.HTML` | Slowest |

3 From the drop-down list, click **Stretch**, **Tile**, or **Center**, depending on how you want the background to be displayed.

The background you select is immediately reflected in the monitor icon in the dialog box, as shown in Figure 8.6.

Notice that the background change takes effect immediately if you are modifying your current desktop. If you are modifying a different desktop, the change is applied the next time you switch to that desktop.

4 If you want to completely remove the background, click **Clear**.

5 Click **OK** to return to the Desktops panel, or continue to the next section if you want to set, change, or remove the icon representation of your desktop.

## Selecting Separate Backgrounds Per Display

To select different Wallpapers per display in a multi-display setup, follow these steps:

1 Click the **Allow different Wallpaper per display** option to enable (check) it and click **Apply**.

2 As shown in Figure 8.6, click the monitor icon (1 or 2) for which you want to change the Wallpaper, click **Browse** and proceed according to the steps shown in the previous section.

3 To change the Wallpaper for the second display, repeat the previous step.

## Selecting a Desktop Icon

To assign an icon to a desktop, follow these steps:

1 Click **Change Icon**.

2 Select a graphics file to use.

Notice that the selected icon is immediately reflected by the icon image, as shown in the example in Figure 8.6.

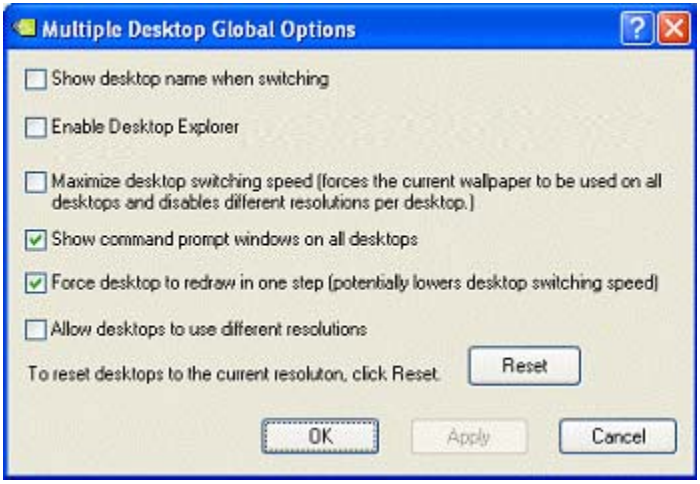
3 If you want to completely remove the icon, click **Clear**.

4 Click **OK** to return to the Desktops panel.

# Multiple Desktop Global Options

To display the Multiple Desktop Global Options dialog box (Figure 8.7) click **Options** from the Desktops panel.

**Figure 8.7** Desktop Explorer Prompt




## Show Desktop Name When Switching

**Default:** Option is *disabled* (unchecked).

If this option is enabled, when you switch desktops, the name of the desktop to which you switched will be shown for approximately two (2) seconds on every display device in your setup; then the desktop name will fade out.

**Note:** In Span modes (and Multiview mode in Windows NT 4.0), the desktop name is only shown on one display.

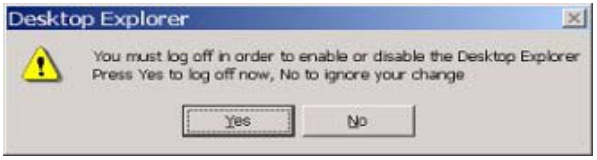
## Enable Desktops in Windows Explorer

When this option is enabled, you can view desktops in the Windows Explorer folder tree.

1 Enable (check) this option to add the Desktop Explorer node to your Windows Explorer.

2 Click **Apply** for the setting to take effect. A prompt appears asking you to log off for the change to take effect (Figure 8.8).

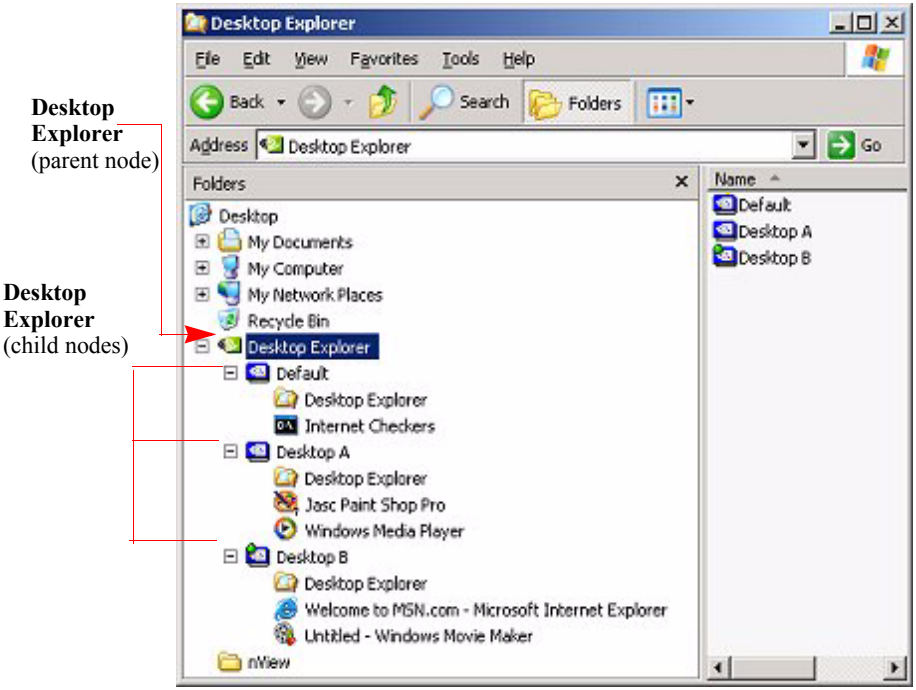
**Figure 8.8** Desktop Explorer Prompt




3 Click **Yes** to log off for the change to take effect, or **No** to ignore your change.

If you just enabled the Desktop Manager Explorer extension, once you log back in, it will be visible in your Windows Explorer window. A sample Desktop Explorer view is shown in Figure 8.9.

**Figure 8.9** Desktop Explorer Nodes in Windows Explorer



If you disabled the Desktop Manager Explorer extension, once you log back in, it will be removed from your Windows Explorer window

**Note:** The Desktop Explorer requires an installed version 6.0 or later of Internet Explorer. Note that while Internet Explorer 6.0 must be installed to use the Desktop Explorer, you can still use other web browsers for browsing the Web. For details on using the Desktop Explorer, see "Using nView Desktop Explorer" on page 95.

## Using nView Desktop Explorer

Activating the **Enable Desktop Explorer** adds a new **Desktop Explorer** node in the Windows Explorer tree (Figure 8.10), with each defined desktop being represented as a child node (with its name and icon) of the Desktop Explorer parent node.

When a desktop node is selected, the content pane can displays the applications present. To see the graphical representation of the desktop itself, you need to select the Desktop Explorer (parent node).

The active applications are displayed as leaves of each corresponding desktop node, allowing drag and drop and other common Explorer functionality.

The following topics are discussed in this section:


- "Creating Desktops from Desktop Explorer" on page 95
- "Renaming, Deleting, and Activating Desktops from Desktop Explorer" on page 96
- "Enhancing the Desktop Explorer "Thumbnails" View" on page 97
- "Using the Thumbnail Styles" on page 98
- "Moving Applications Between Desktops or to a New Desktop" on page 98
- "Accessing Other Application Settings from Desktop Explorer" on page 100


## Creating Desktops from Desktop Explorer

To create and add a desktop using the Desktop Explorer, follow these steps:

1. Right click Desktop Explorer in the Folders list, as shown in Figure 8.10.
2. Click **New Desktop** to display a dialog box to enter the desktop name.
3. Type the new desktop name (Figure 8.11) and click **OK**. The new desktop appears as a new desktop under Desktop Explorer.

**Figure 8.10** nViewDesktop Explorer: Main Pop-up Menu

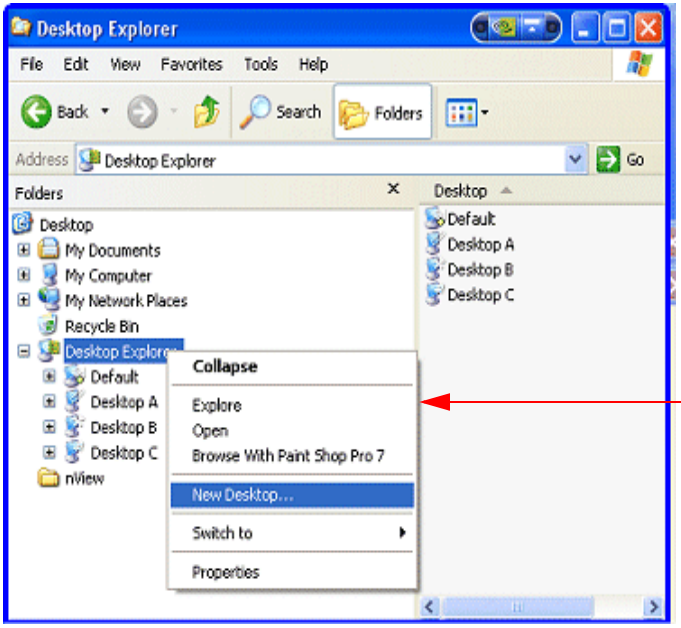



**Figure 8.11** Entering a Desktop Name

## Renaming, Deleting, and Activating Desktops from Desktop Explorer

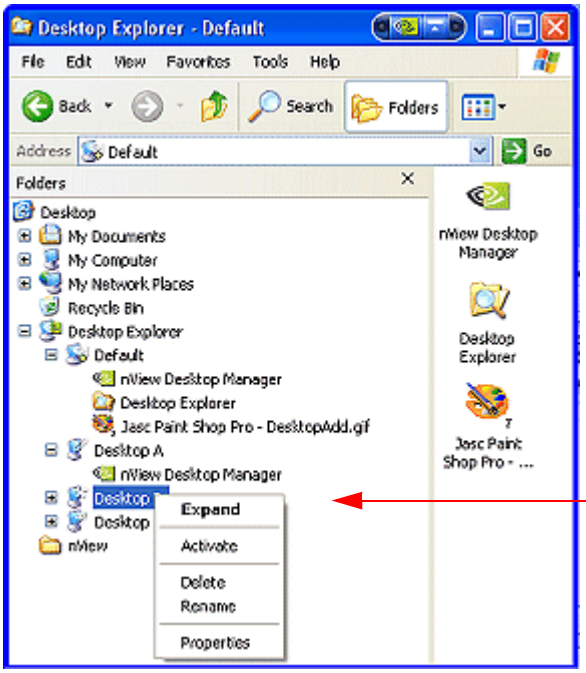
Using the Desktop Explorer, you can also rename, delete, and activate (switch to) a selected desktop.

1 Right click the Desktop name in the Explorer window to display a pop-up properties menu, as shown in Figure 8.12.

2 Click one of these options:

- **Activate**: This option immediately switches you over to the selected desktop.
- **Delete** lets you delete the selected desktop.

**Figure 8.12** nView Desktop Explorer: Desktop Pop-up Menu




Desktop Explorer "desktop" pop-up menu

- **Rename** lets you rename (in edit mode) the desktop name.

  Under **Windows NT 4.0**, clicking **Rename** displays a **Rename Desktop** dialog box in which you can enter a desktop name. Click **OK** when you are done and the new name replaces the old one in the Explorer window.

- **Properties:** Click this option to open the Desktops panel.

## Enhancing the Desktop Explorer "Thumbnails" View

From the Desktop Explorer window, click the **View** menu to see a variety of styles you can choose to view your folders, files, and desktops in the content pane of the Explorer window. These styles include Lists, Icons, Details, and Thumbnails.

**Note:** In addition to the basic views offered by Windows Explorer, if you choose the **Thumbnails** view from the Desktop Explorer **View** menu, nView Desktop Manager provides a number of Thumbnail styles you can choose to display the desktops you have created.

Thumbnail style choices are:

- **Screenshot** shows an actual image of the desktop including wallpaper and windows. Note that this style requires the most processing power. Also note

that the image displayed is a snapshot of the desktop when you switched from it is only updated when you switch from it, it does not dynamically update.

- **Geometry** shows the desktop wallpaper along with a wire frame view of the windows on the desktop. This thumbnail style dynamically updates as windows are opened and closed on the desktop.
- **Wallpaper** shows the desktop wallpaper only per desktop.
- **Disabled** shows the desktop icons only.

## Using the Thumbnail Styles

To use the Thumbnail styles for your desktops, follow these steps:

1. From the Desktop Explorer window, click the **View** menu and then the **Thumbnails** option to enable the Thumbnails option (if it isn't already enabled).
2. Click the icon labeled **Desktop Explorer** in the folder tree of your Explorer window to expand the folder so that you can view your desktops in the contents pane.
3. Then right click on the desktop for which you want to configure Thumbnail styles. A pop-up menu appears as shown in (Figure 8.12).
4. Click **Thumbnails** and then select one of these styles: **Disabled**, **Wallpaper**, **Screenshot**, or **Geometry** (Figure 8.13).
5. Not all thumbnail styles are supported by all operating systems. However, Windows XP supports all styles.

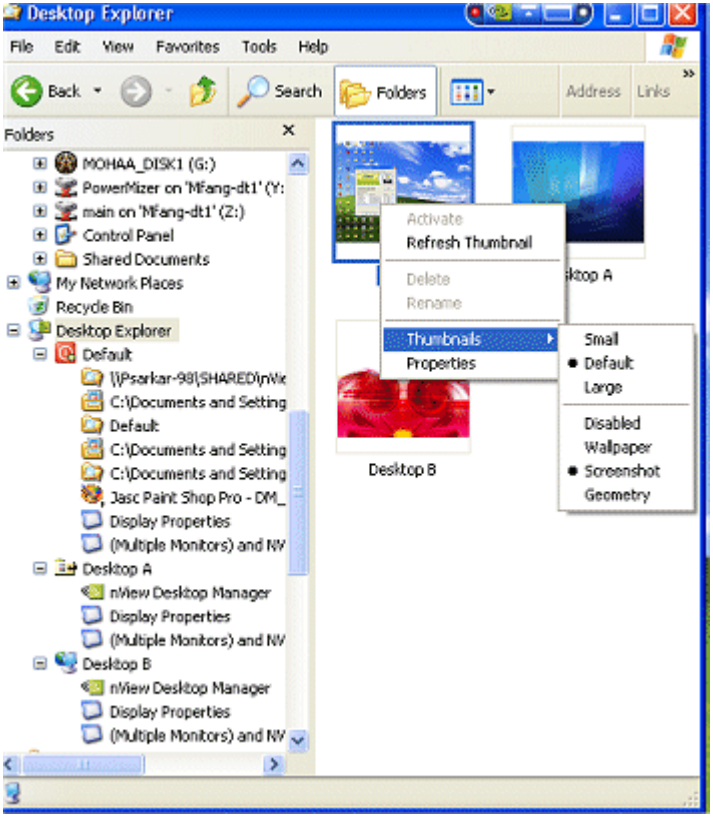
## Moving Applications Between Desktops or to a New Desktop

**Note:** If you enabled adding **nView options . .** on the User Interface panel, you can also move applications between desktops using the application's nView menu options. See "nView Menu Options" on page 121 and "nView Menu: Description of Options" on page 124 for details.

You can use any of the following methods to "move" or "add" applications from one desktop to another:

- To move applications from one desktop to another, you can use your mouse to drag and drop applications from one desktop to another.

**Figure 8.13** nView Desktop Explorer: nView Desktop Thumbnails Styles

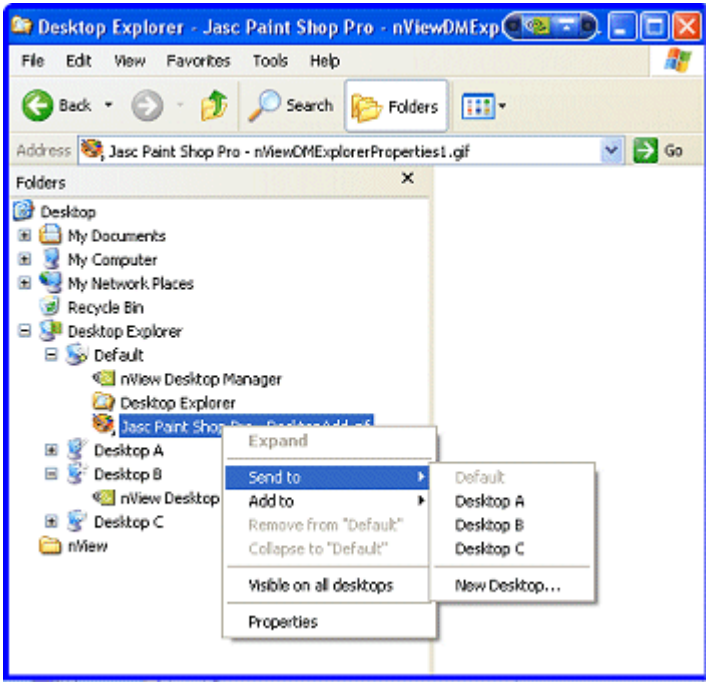



- To move or add application between desktops, you can highlight an application listed in a desktop and right click to display a properties menu, as shown in Figure 8.14. Then follow these steps:

  a Click **Send to** (to move) or **Add to** (to add) followed by an existing desktop to which you want to move the application or add the application. The application will then appear under the desktop you selected.

  b If you want to create a new desktop on which you want to place the application, click **New Desktop**, enter the name of the new desktop in the dialog box that appears, and click **OK**. The application will appear under the new desktop.

**Figure 8.14** nVIew Desktop Explorer: "Send to *Desktop n*" Application Settings




## Accessing Other Application Settings from Desktop Explorer

Using the Desktop Explorer, you can access a few application-specific settings as explained below.

**Note:** If you enabled adding **nView options . .** on the User Interface panel, you can also access these application-specific options using the application's nView menu options. See "nView Menu Options" on page 121 and "nView Menu: Description of Options" on page 124 for details.

- **Visible on all desktops**

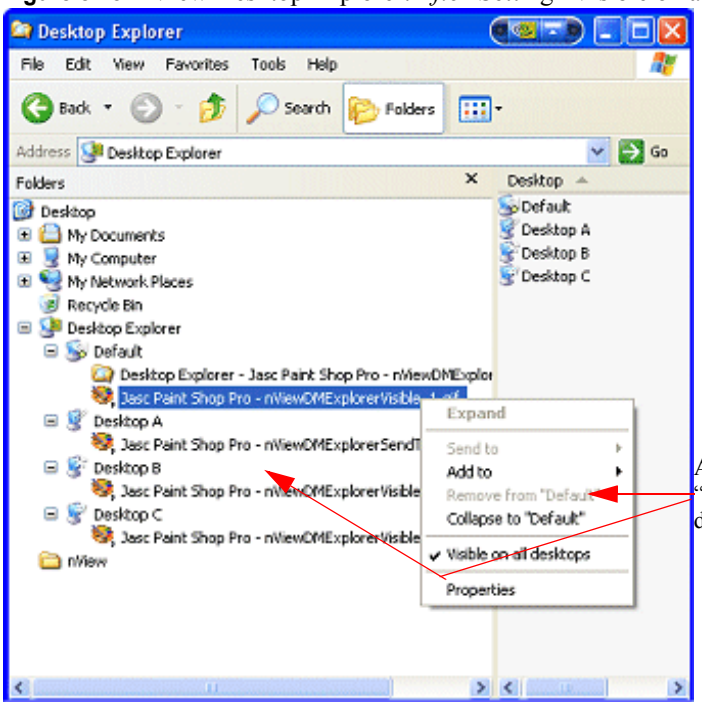
  To access this option, follow these steps:

  a. Right click an application in a desktop to display a properties menu, as shown in Figure 8.14.

  a. Then click **Visible on all desktops** to check the option and enable it.

  a. Notice that the application now appears under each of your desktops, as shown in Figure 8.15.

**Figure 8.15** nView Desktop Explorer: *After* Setting "Visible on all desktops"




- **Collapse to <*desktop name*>**

  Once you enable the **Visible on all desktops** option for an application, you can undo the process by limiting the availability of the application to only one desktops. To do so, follow these steps:

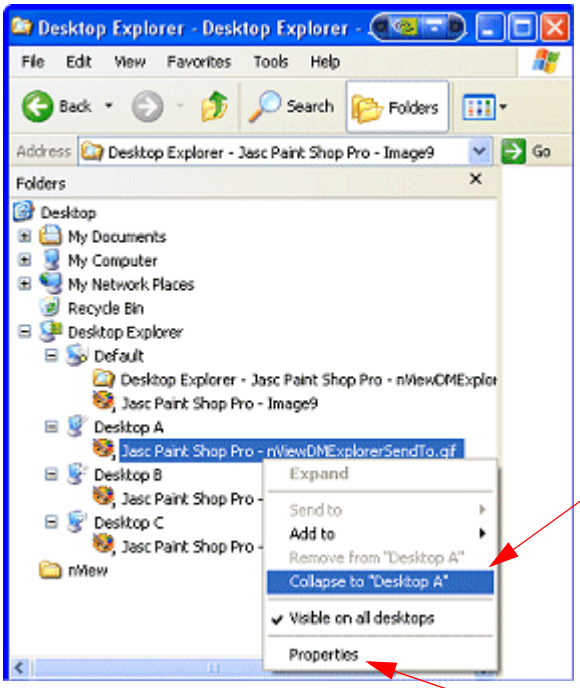
  a. Right click the instance of the application that appears in the desktop in which you want the application to remain.

  b. From the properties menu that appears, click **Collapse to <*desktop name*>**, as shown in Figure 8.16.

  c. Notice that the application is removed from all desktops except the one under which you wanted the application to remain, as shown in Figure 8.17.

- **Properties**. Click **Properties** (Figure 8.16) to open the **Applications** panel. For details on using the Applications settings, see "Managing Applications: For Advanced Users" on page 172.

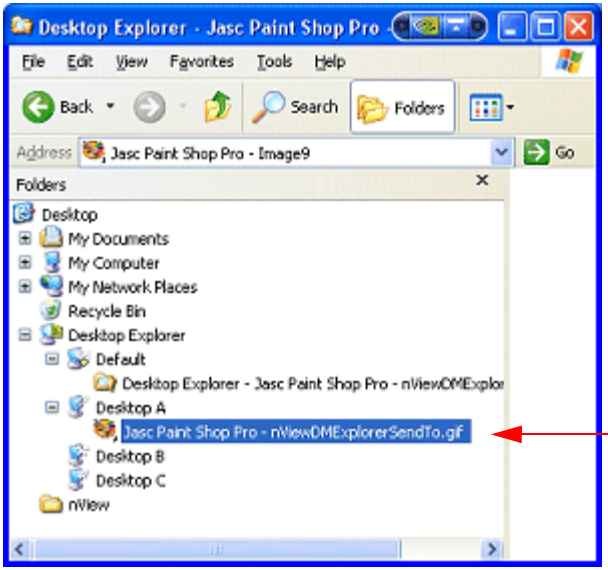
**Figure 8.16** nViewDesktop Explorer: "Collapse to *Desktop n*" Application Setting




Click "**Collapse to desktop** *n*" to remove the application from other desktops.

Click **Properties** to open the **Applications** panel.

**Figure 8.17** nViewDesktop Explorer: *After* Setting "Collapse to *Desktop n*"




Applications "collapsed" to selected desktop and removed from other desktops.

### Advanced Options

- Using the **Add to desktop** option, you can place an application on any number or subset of desktops.

  For example, if you had four desktops named "**Default**", "**Desk2**", "**Desk3**", and "**Desk4**" and you had an application on Default, you could Add it to Desk3. After adding the application to Desk3, the application would exist on Default and Desk3 but not on Desk2 and Desk4.

- Using the **Remove from desktop** option, you can remove an application from an individual desktop.

## Maximize Desktop Switching Speed

Enabling this option results in the very quick switching between desktops by forcing the current wallpaper background on all desktops and disabling different resolutions per desktop.

## Show Command Prompt Windows on All Desktops

When your enable this option, every command prompt window shows on every desktop. When you disable this option, command prompt windows only appear on the desktop on which they were opened.

## Force Desktop to Redraw in One Step

When you enable this option, desktops are redrawn in one step when you switch desktops. However, this action may slow down the desktop switching speed.

## Allow Desktop to Use Different Resolutions

When you enable this option, you can set different screen resolutions for each of your desktops.

## Reset Desktops to the Current Resolution

Click **Reset** to reset all your desktops to the resolution of your current desktop.

CHAPTER 9

# USING THE USER INTERFACE OPTIONS

This chapter contains the following major sections:


- "About User Interface Options" on page 104
- "Accessing the User Interface Tab" on page 105
- "General Options" on page 106
- "Windows and Applications Options" on page 116


## About User Interface Options

The User Interface options let you control the nView Desktop Manager user interface and how it is applied to windows.

For example, using the User Interface options, you can control the following:

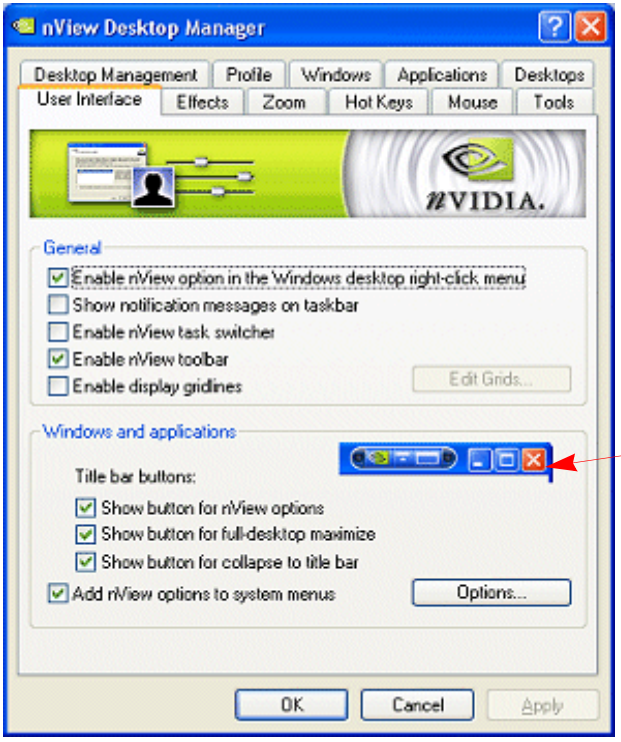
- Addition of button features to your Windows application title bars
- Availability of options on the nView options menu.
- How nView notifies you of changes in your desktop state
- How nView Desktop Manager is displayed on the Windows desktop

# Accessing the User Interface Tab

1 If you need help accessing the nView Desktop Manager control panel, see "Accessing and Enabling the nView Desktop Manager Control Panel" on page 59.

2 Click the **User Interface** tab or menu option to display the nView Desktop Manager **User Interface** panel (Figure 9.1).

**Figure 9.1** User Interface Panel




Click **Options** to open the **nView Menu Options** dialog box.

# General Options

## Enabling General Options

### Enable nView Options in the Windows Right-click Menu

This option controls whether the nView Properties and nView Desktop menu choices appear in your Windows desktop “right-click” menu.

To disable this menu choice, uncheck the check box.

**Default:** Option is *enabled* (checked). It is recommended that you keep this option enabled.

### Show Notification Messages on Taskbar

This option controls whether a balloon help notification message is displayed on the taskbar when a major change in the nView desktop state occurs.

For example, transparent windows are not compatible with Direct3D applications and must be disabled when a Direct3D application starts. If notification messages are enabled, then if a Direct3D application starts and nView Desktop Manager needs to turn off transparency, a message will pop up informing you of this change.

### Enable nView Task Switcher

When this option is enabled, nView adds a desktop switcher in addition to the standard application tab switcher.

By default, this additional “switch desktop” functionality is accessed through a **Alt-~** keystroke combination which you can change through options in the Hot Keys panel. See “Using Hot Keys” on page 150.

### Enable nView Toolbar

The nView Desktop Manager toolbar lets you place the following items **profiles**, **actions**, and **desktops** on a dockable toolbar from which you can access these features with a single click of a button.

- **Actions**
- **Desktops**
- **Profiles**

From the User Interface panel, click **Enable nView toolbar** and then click **Apply**. An nView toolbar appears on your desktop.

Figure 9.2 through Figure 9.14 show a variety of nView toolbar menus and options.

**Note:** The nView toolbar functions just like any other Windows toolbar, such as the Windows taskbar. For details on how to work with the nView toolbar, you can refer the Windows Help for working with Windows toolbars and the taskbar, in particular.

**Figure 9.2** Appearance of the Enabled "Default" nView Toolbar: "Show title" mode.

**Figure 9.3** **Actions**: Show Text Enabled; **Profiles**: No Text/Title Enabled

**Figure 9.4** **Actions** and **Profiles**: Show Text and Show Title Are Both *Disabled*.

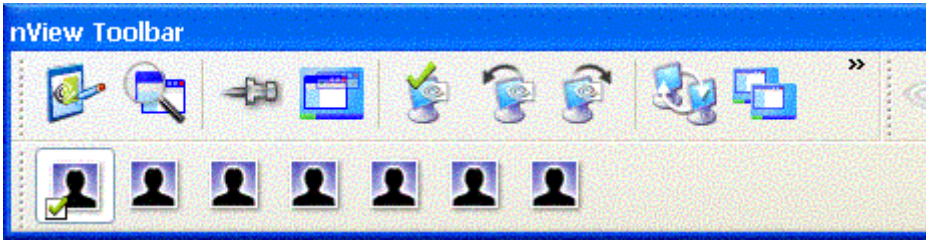



**Figure 9.5** ScreenTips text for an Action Toolbar Button.

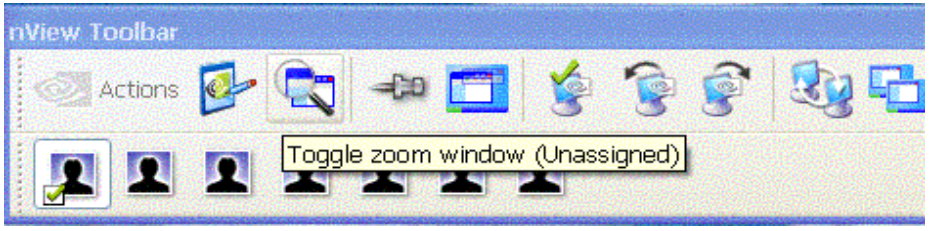


**Figure 9.6** Appearance of Profiles, Actions, and Desktop Menus in nView Toolbar.

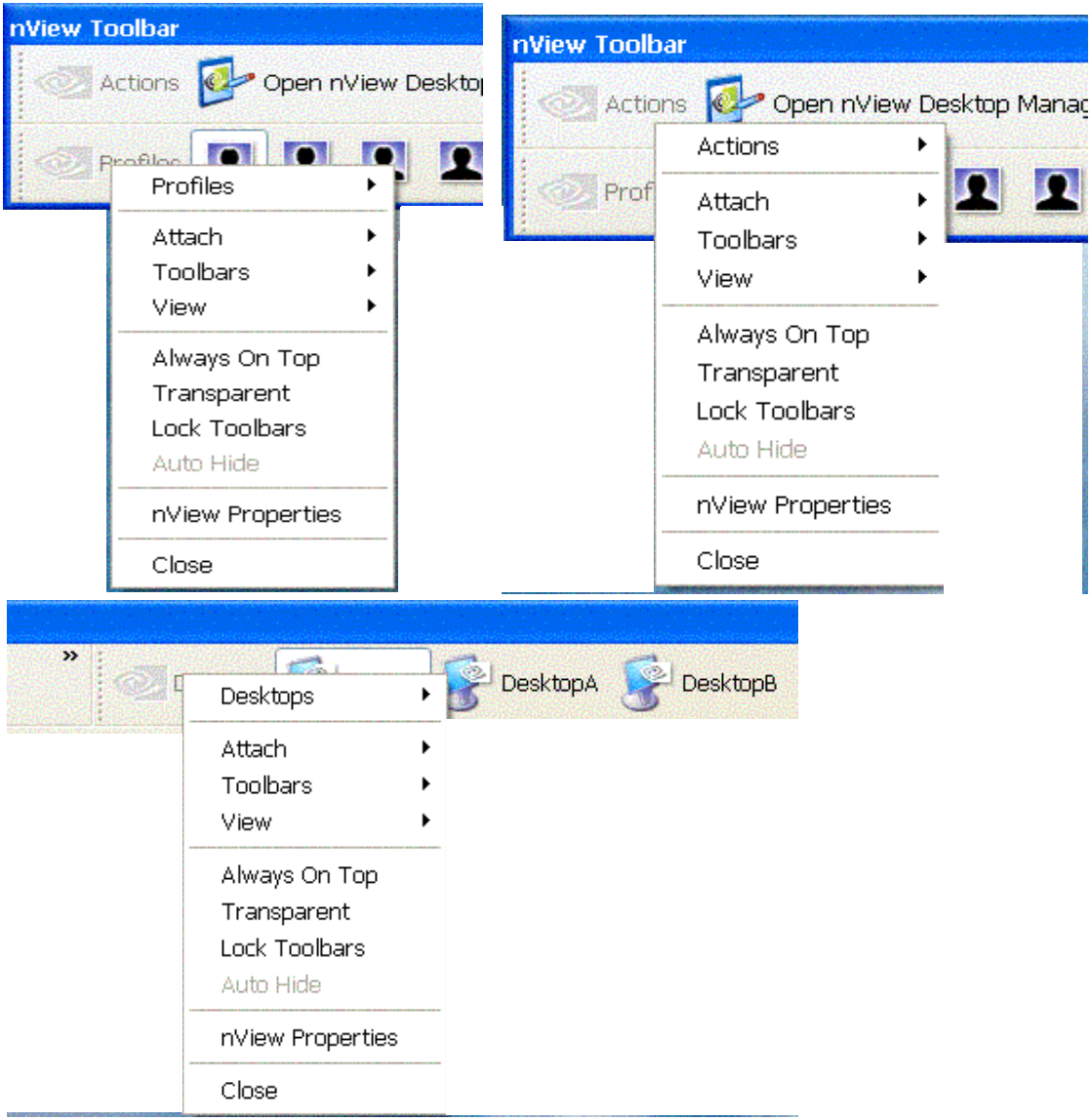


**Figure 9.7** nVIew Toolbar: View Menu.

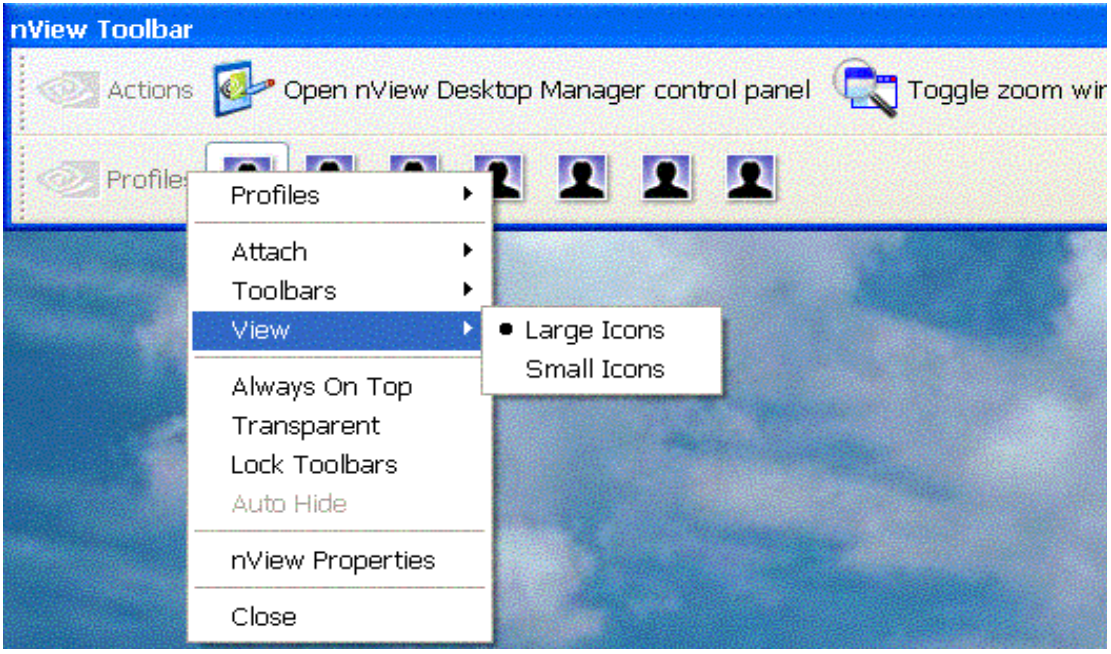



**Figure 9.8** nView Toolbar: Toolbars Menu.

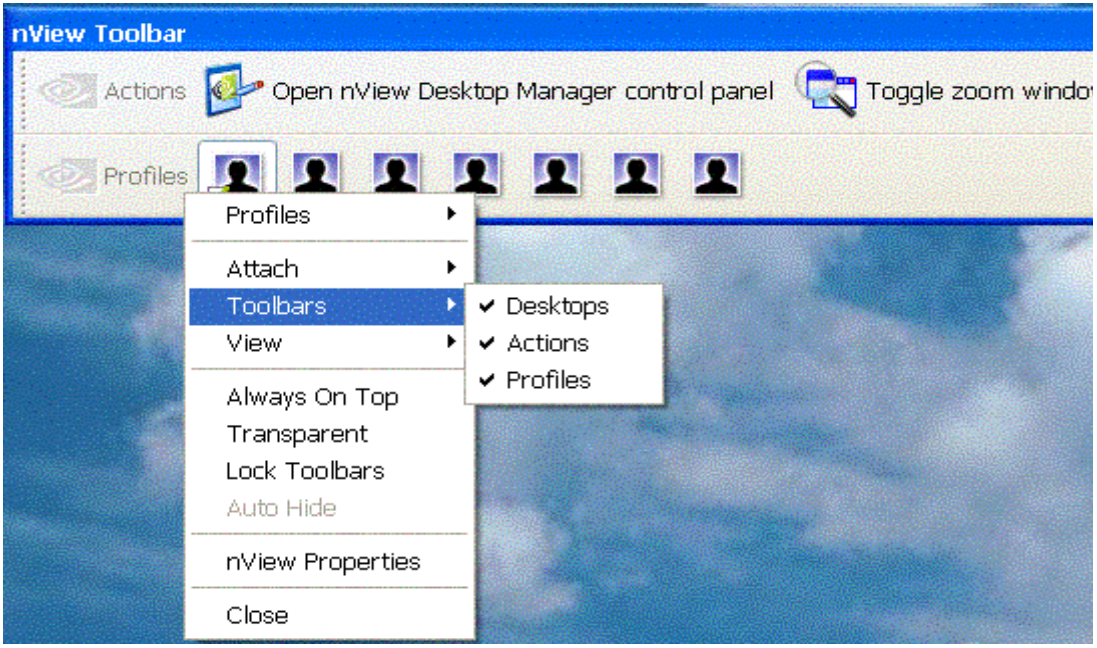


**Figure 9.9** nView Toolbar: Attach Menu.

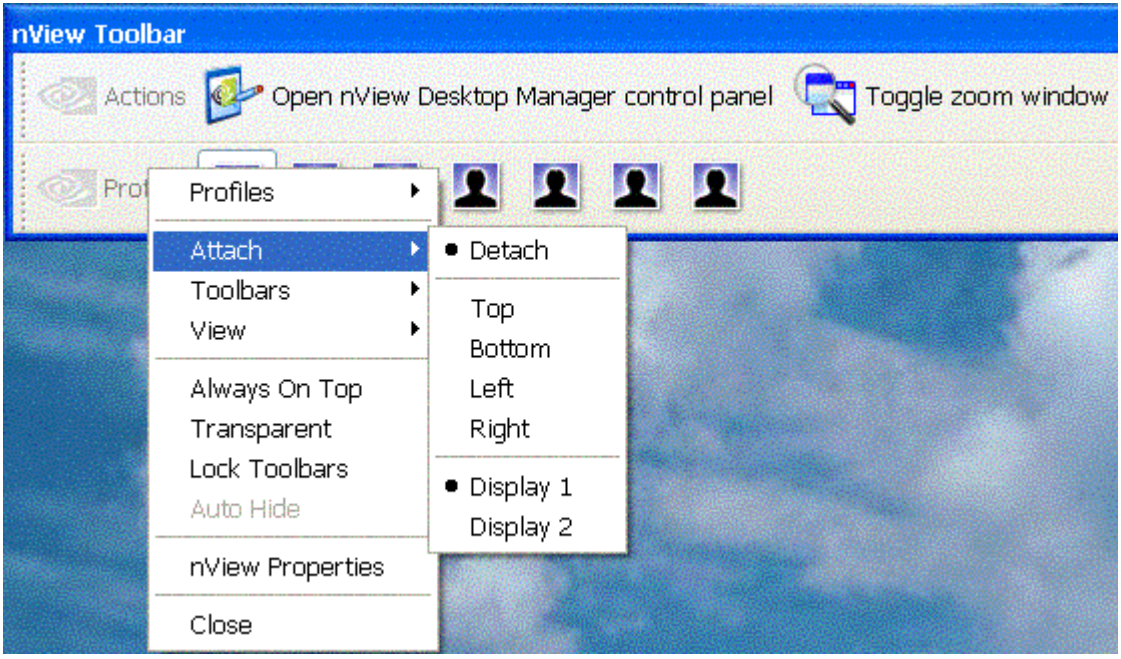
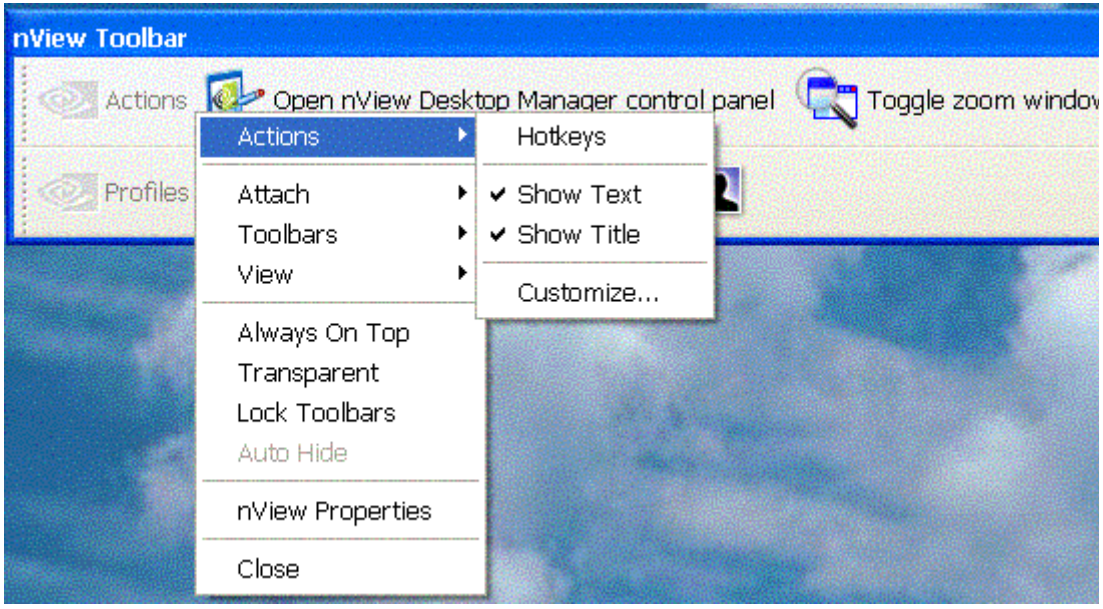



**Figure 9.10** nView Toolbar: Actions Menu with Show Text/Title Enabled.



When you click **Customize** from the Actions menu shown in Figure 9.10, the Windows-based **Customize Toolbar** dialog box appears, as shown in Figure 9.11.

**Figure 9.11** Customize Toolbar Dialog Box: Available from the Actions Menu Only.

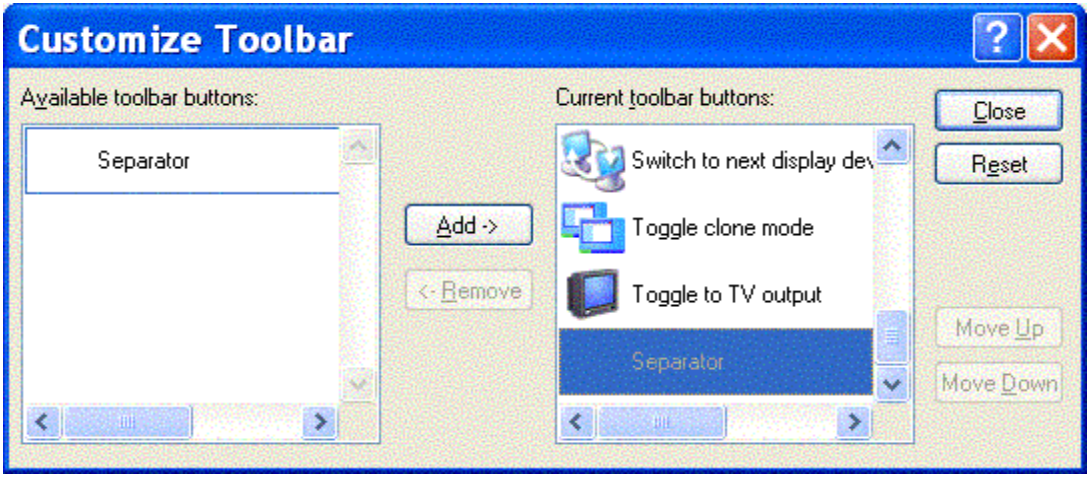



**Figure 9.12** nView Toolbar: Desktops Menu with Show Text/Title Enabled.

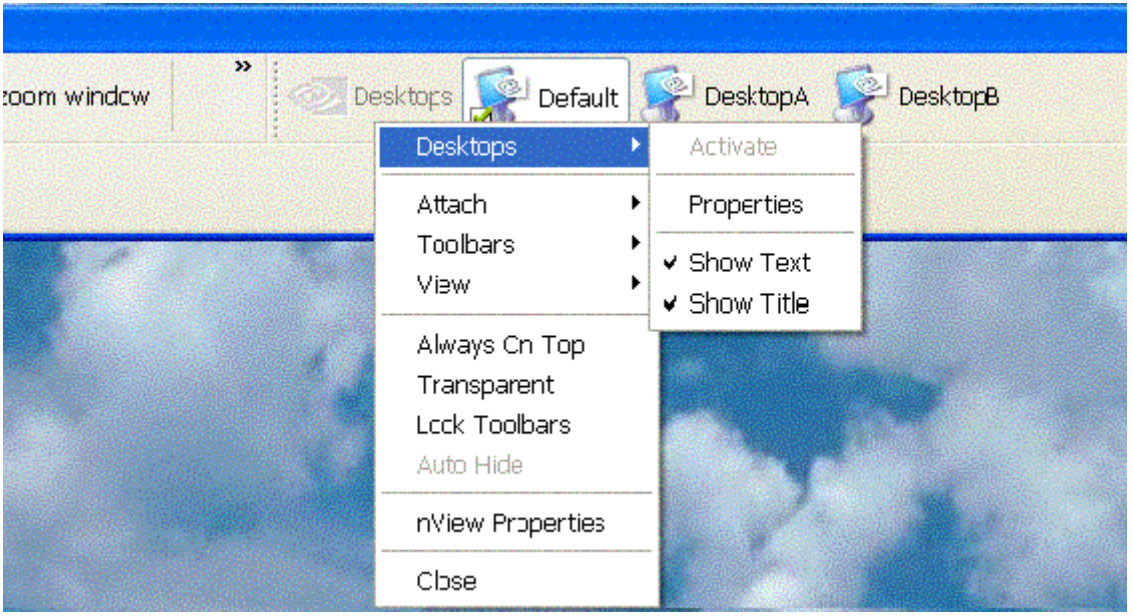


**Figure 9.13** nVIew Toolbar: Profiles Menu with Show Text/Title AND Show Text Only Enabled.

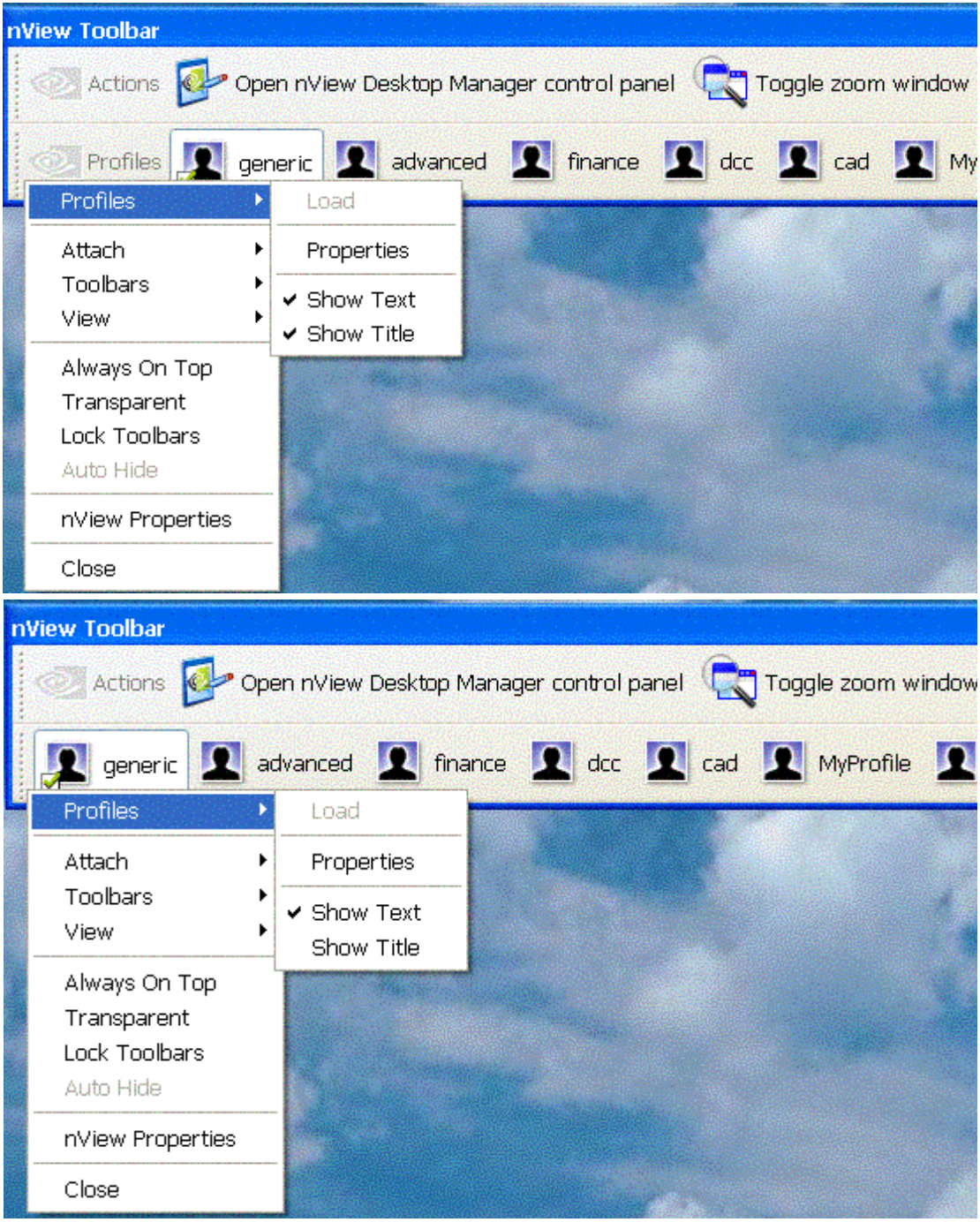


**Figure 9.14** nView Toolbar: Actions Menu with Show Text/Title AND Show Title Only Enabled.

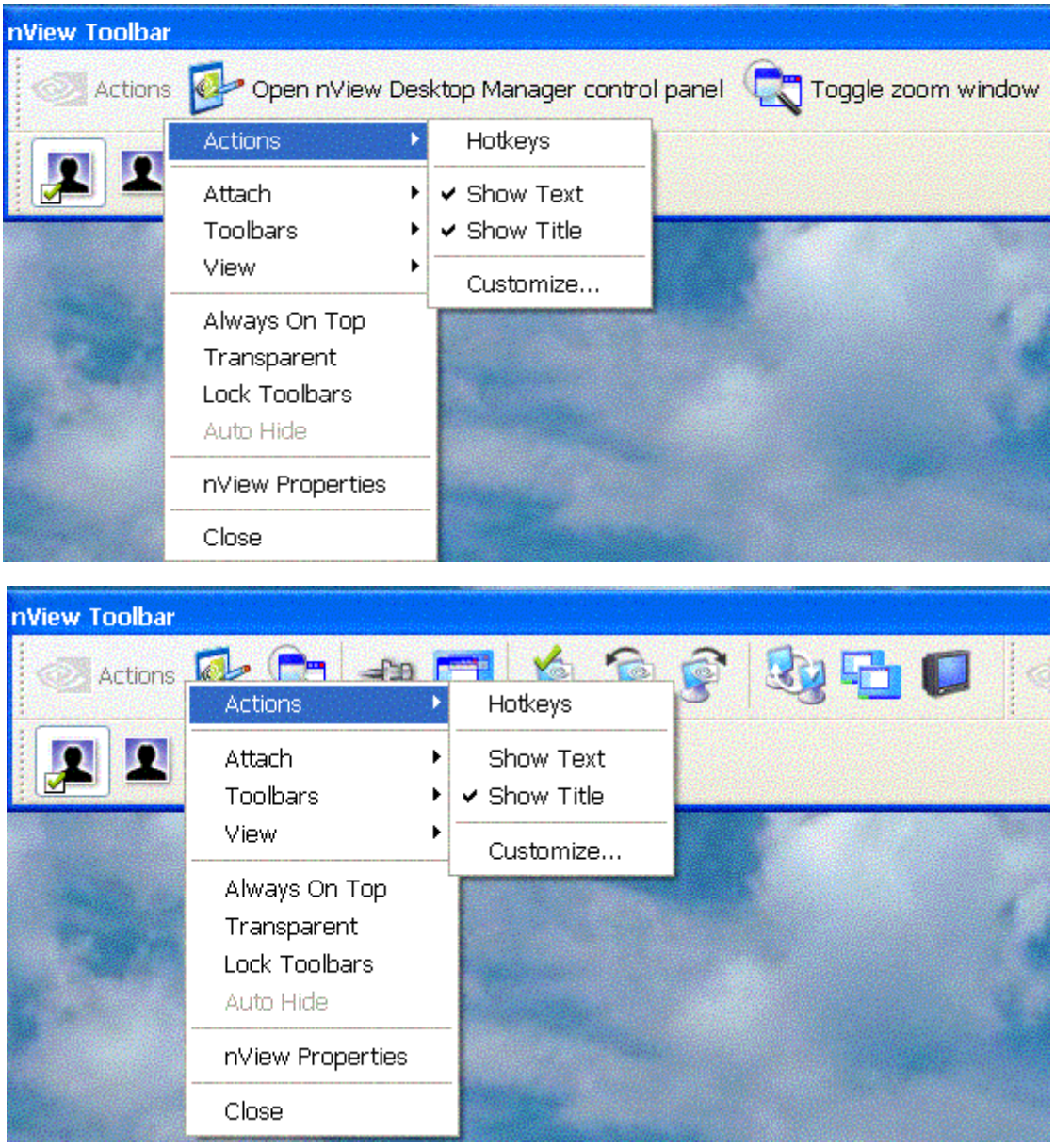
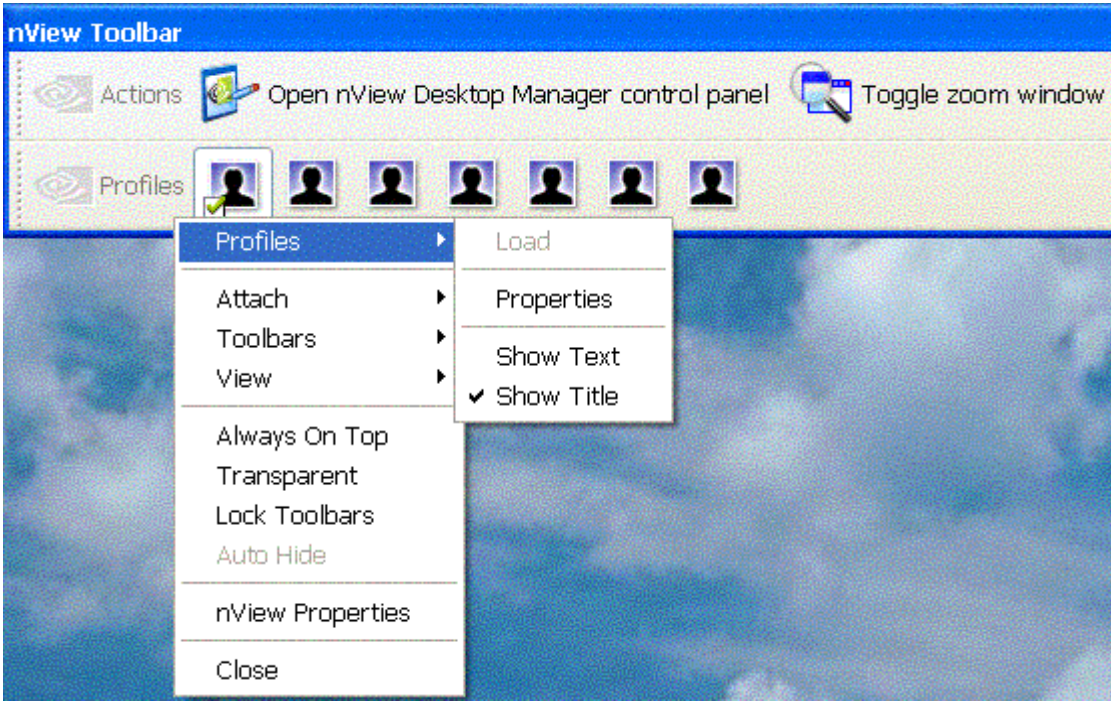


**Figure 9.15** nView Toolbar: Profiles Menu with Show Title Enabled.



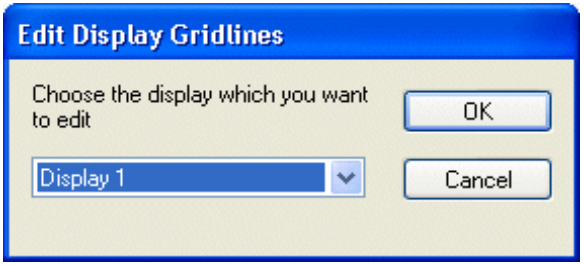

## Enable Display Gridlines

When this option is enabled, you can define grids on each of your displays which act as sub-monitors for the purposes of dialog repositioning, window spanning, and maximizing.

To create grid lines:

1 Check the **Enable display gridlines** check box, then click **Edit Grids**. The Edit Display Gridlines dialog appears

**Figure 9.16** Edit Display Gridlines.



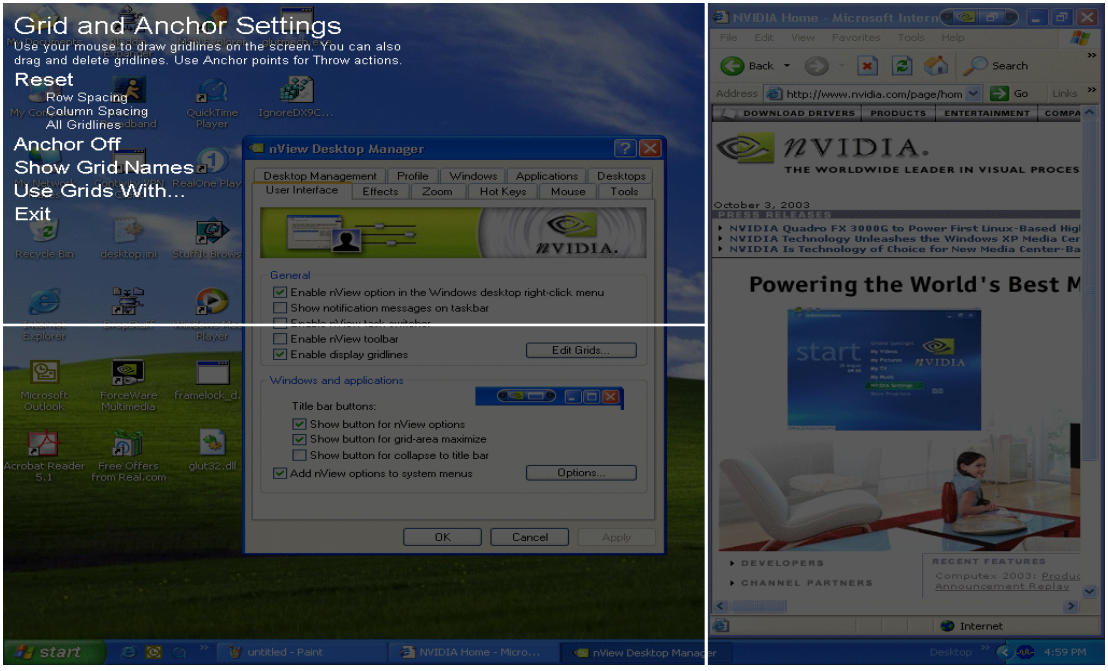
2 Click the arrow and select the display on which to set up your gridlines, then click **OK**.

The Grid and Anchor Settings screen appears over the darkened desktop.

3 Follow the instructions in the Grid and Anchor Settings menu to create gridlines.

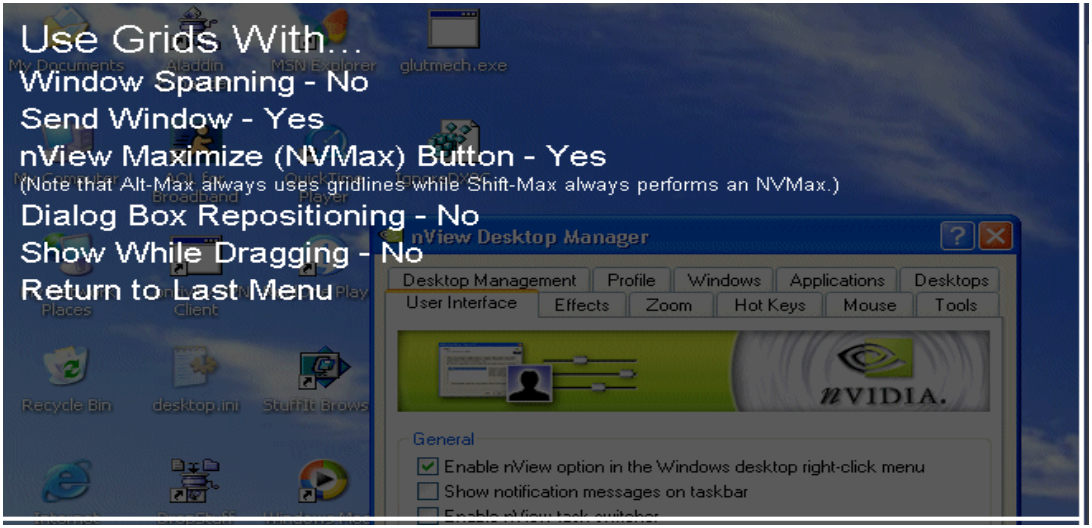
Figure 9.17 shows a desktop with one horizontal gridline and one vertical gridline that are used to create three "sub-monitors".

**Figure 9.17** Gridlines Setup (1): Grid and Anchor Settings




4 To set up other grid controls, click **Use Grids With**. The Use Grids With screen appears.

**Figure 9.18** Gridlines Setup (2): Use Grids With




5 Click **Return to Last Menu** when done.

6 From the first menu screen, click **Exit** to return to the desktop.

# Windows and Applications Options

## Adding the nView Desktop Manager Title Bar Buttons

Adding nView Desktop Manager title bar buttons to application windows, as explained in the sections below, provides easy access to nView Desktop Manager features including the following:

- the nView options menu
- a windows minimization (collapse to title bar) button and
- desktop/monitor maximizing commands (max to desktop, max to monitor).

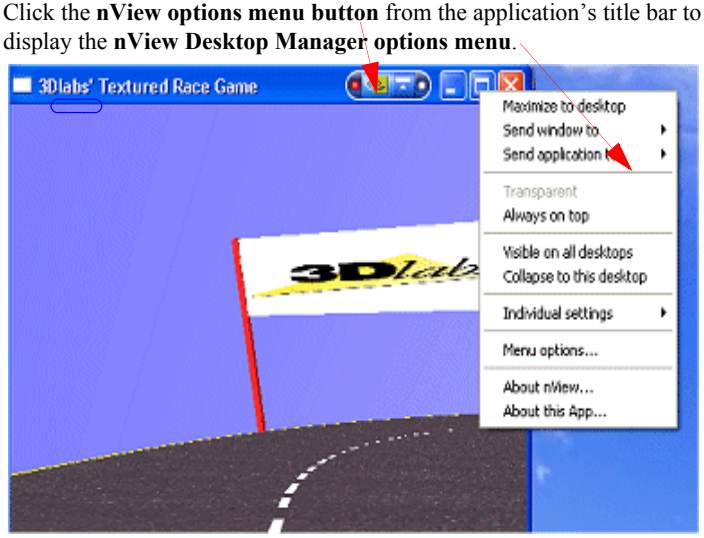
### Show Button for nView Options

1 To enable this option, click to check the **Enable nView menu options title bar button** check box.

When you enable this option, every application window's title bar will contain an nView Desktop Manager options menu button, as shown in Figure 9.19.

2 Click the **nView options menu button** from the application's title bar to display the nView options menu (Figure 9.19).

**Figure 9.19** Accessing the nView Desktop Manager Options Menu Using the nView Options Menu Button




**Note:** When you disable (uncheck) this option, the nView Desktop Manager menu button is not displayed in the title bar of applications. In this case, if you still need to access the nView options, you can use the **nView Options** title bar option to access the nView options, *only* if you enabled this feature on your User Interface tab.

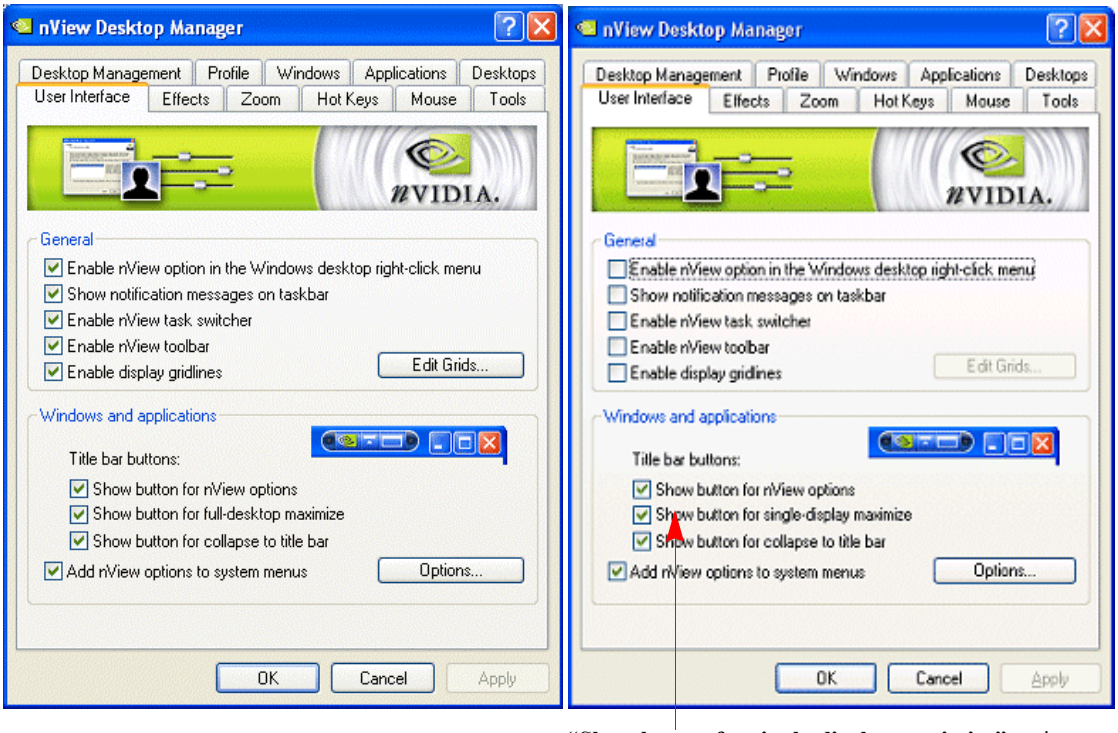
## Show button for full-desktop maximize

**Note:** This option is displayed if you are in *nView Single Display*, *Dualview*, or *Clone* mode (Figure 9.20).

When you enable this option, the nView full-desktop maximize button (square on the left of the title bar icons in Figure 9.21) is added to title bars on all application windows.

From your open application, you can click this button to toggle a custom maximized state for your application window in multi-display configuration. In **nView Dualview mode**, the application window maximizes to the full desktop. on which the application is located.

**Figure 9.20** User Interface Panel Options (2)




"**Show button for single-display maximize**" option

## Show button for single-display maximize

**Note:** This option is displayed if you are in *nView Span (Horizontal or Vertical)* mode under Windows 2000/XP (Figure 9.20).

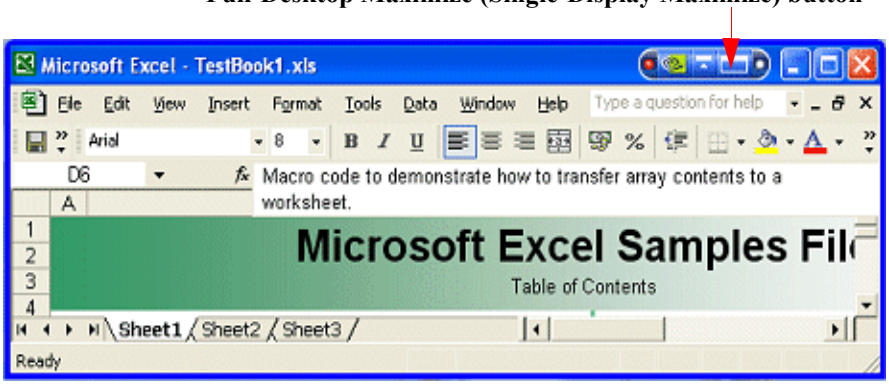
When you enable this option, the nView single display maximize button (square on the left of the title bar icons in Figure 9.21) is added to title bars on all application windows.

From your open application, you can click this button to toggle a custom maximized state for your application window in multi-display configuration.

In **nView Span (Horizontal and Vertical) modes** under Windows 2000/XP, the application window maximizes to the entire screen of the single display device on which the application is located.

**Figure 9.21** Application Title Bar (Full Desktop or Single Display) Maximize Button

**Full-Desktop Maximize (Single-Display Maximize) button**




## Show button for "Collapse to Title Bar"

If this option is *enabled* (checked, as shown in Figure 9.1), the "**Collapse to title bar**" **button** is added to the application title bar (shown in Figure 9.23).

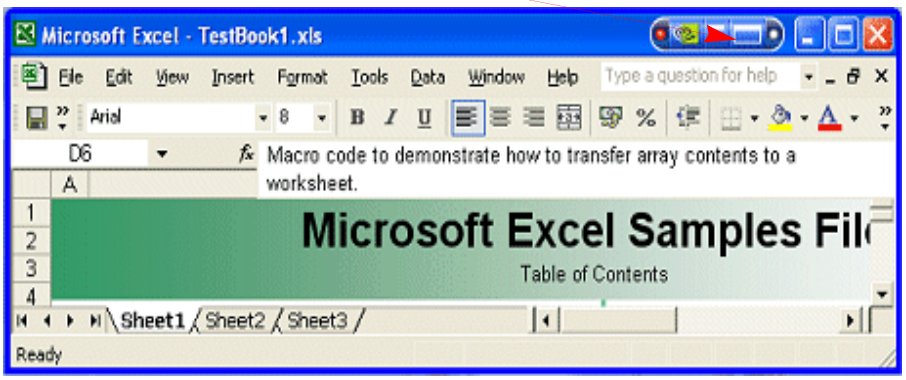
When you click this button (shown in Figure 9.23), the window shrinks in size to just its title bar (or the smallest size possible for the window) as shown in Figure 9.22. When you click the button again, the window is restored to its former size, also shown in Figure 9.22.

**Default:** Option is *disabled* (unchecked). The button is not added to applications' title bars.

**Figure 9.22** Window Appearance Using the "**Collapse to Title Bar Button**"

Clicking the "**Collapse to title bar" button** causes the application window to only show its title bar.

Clicking the "**Collapse to title bar" button** *again* causes the application window to restore to its original size.



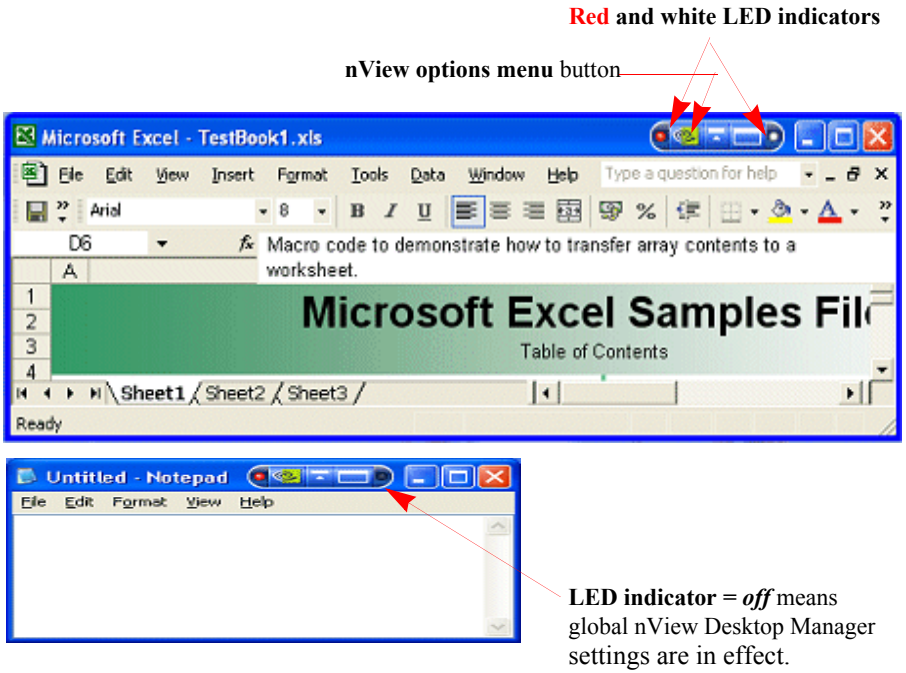
## About the Title Bar Buttons LED Status Indicators

In addition to allowing quick access to controls, the nView button bar also provides status LEDs on each side.

- On the *left side* of the nView button bar is a **LED** that is either ***off*** or ***red***.
  - When the **LED is *off***, this means that the application does not have any nView Desktop Manager functions disabled for the window.
  - When the **LED is red** (shown in Figure 9.23), then certain nView Desktop Manager functions for the application window are disabled.

  **Note:** To determine the Desktop Manager functions that are disabled, open the nView options menu for the application and select "**About this app…**".

**Figure 9.23** LED Indicator and nView Options Menu Button




- On the *right side* of the nView button bar is a **LED** that is either ***off*** or ***white*** (shown in Figure 9.23).
  - When **LED is *off***, the window uses *global nView settings*.
  - When **LED is *white***, the application has *individual (application) settings* defined for it.

## About the nView Options Menu

You can access Desktop Manager features quickly and easily from any application using the nView options menu. Every window has a system menu for basic tasks such as moving or resizing the window. Desktop Manager extends this menu to add features such as making the window transparent or moving the window to another display device or desktop.

You can also access nView application-specific options from the system menu. For example, with certain applications such as Internet Explorer 5.0, you can create links between two Internet Explorer windows.

**Note:** The features available on the nView Options menu are described in detail in "nView Menu: Description of Options" on page 124.

## Add nView Options to System Menus

To enable the "**nView options**" menu item for each of your applications, follow these steps:

1. From the User Interface panel, click the check box **Add nView options to system Menus** to add the nView options to every application's system menu.
2. Click **Apply**.
3. You can now use one of two methods to display the nView options menu:
   - Right click an application's title bar and click the **nView options** menu item

   *or*

   - Right click the application icon in the Windows task bar and click **nView options**.

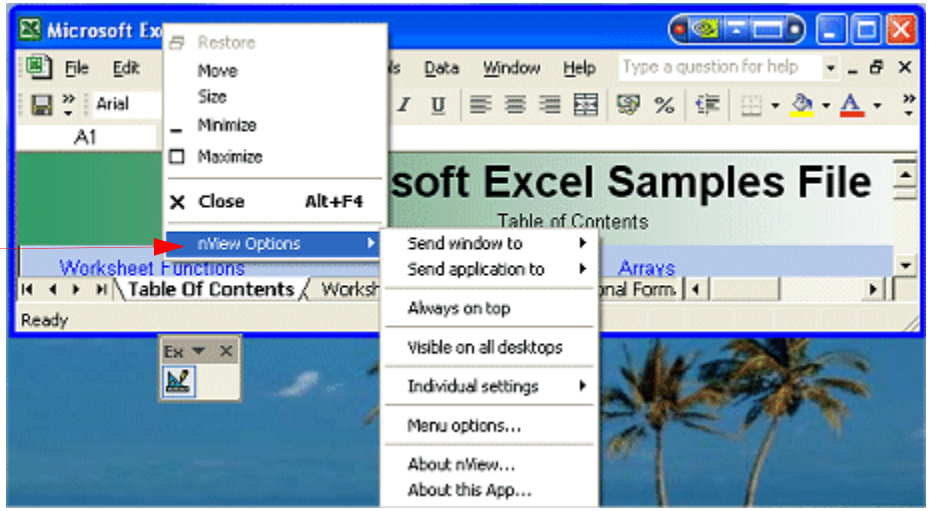
## nView Menu Options

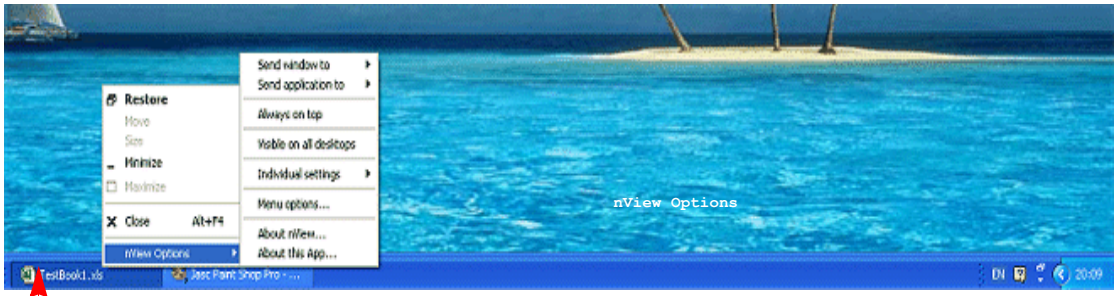
nView Desktop Manager can perform a variety of operations on windows in the system. You can access this functionality through an **nView Options** menu, as explained in the earlier sections.

Figure 9.25 shows the dialog box that appears when you click **Options**. From this dialog box, you can change the nView Desktop Manager options that you want to display in the nView options menu. In this way, you can customize your nView options menu to only show those features that you want to use.

**Figure 9.24** Accessing the nView Desktop Manager Options Menu

Click **nView Options** from the application's title bar as another way to display the **nView Desktop Manager options menu**.




Right click the application name/icon from the Windows task bar and click **nView Options** to display the nView Desktop Manager options menu.

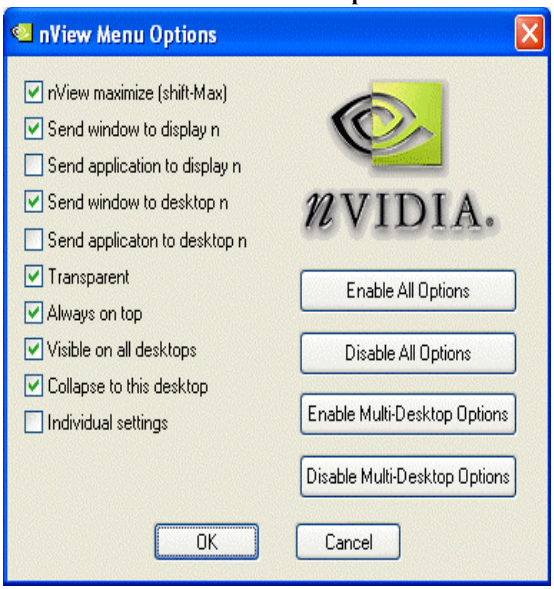
The options that appear in this dialog box correspond to those available from the nView options menu that's available from your application, as shown in Figure 9.25.

**Note:** If you do not want to have all options available, enable/disable (check/uncheck) one or more options, as needed. Once you disable (uncheck) an option, you will no longer see the option in the nView Options submenu for that application.

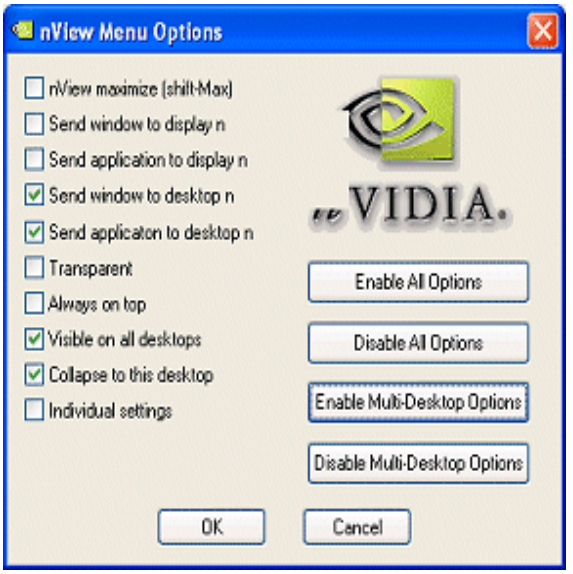
Enable or disable one or more of the following options by clicking the check box next to each option to insert or remove the check mark.

**Figure 9.25** nView Menu Options Dialog Box

**Miscellaneous Enabled Options**




**Enabled Multi Desktop Options**




**Note:** For detailed descriptions of each of these options, see "nView Menu Options" on page 121.

- **nView maximize (Shift Max)**
- **Send windows to display *n***
- **Send application to display *n***
- **Send windows to desktop *n***
- **Send application to desktop *n***
- **Transparent**
- **Always on top**
- **Visible on all desktops.**
- **Collapse to this desktop**
- **Individual settings**
- Click **Enable All Options** if you want to enable all of the above options.
- Click **Disable All Options** if you want to disable all of the above options.
- Click **Enable Multi-Desktop Options** if you want to add only the multiple desktop-specific options.

- Click **Disable Multi-Desktop Options** if you want to remove only the multiple desktop-specific options.

## nView Menu: Description of Options

This section explains the nView options that are available from an application's nView options menu and part of the configurable nView Menu Options dialog box (Figure 9.25).

### nView Maximize

This option performs the same action as the max/restore title bar option that you can add as explained earlier in this chapter. This option maximizes the application window to the current display or to the entire desktop; depending on whether you are running in nView Dualview or Span mode.

### Send window to. . .

- **Monitor *n*:** A pop-up menu displays the number (*n*) of active display devices in your setup. Select a display device number, which will represent the display to which you want the window to move.
- **Desktop *n:*** A pop-up menu displays each defined and active desktop name, represented by *n*, including selections for the default and current desktop. Select a desktop. The active window will be sent that desktop.

### Send application to . . .

- **Display *n*:** A pop-up menu displays the number (*n*) of active display devices in your setup. Select a monitor number, which will represent the monitor on which you want the application to move.
- **Desktop *n:*** A pop-up menu displays each defined and active desktop name, represented by *n*, including selections for the default and current desktop. Select a desktop. The application will be sent to that desktop. For an application that has more than one window (e.g., Microsoft Outlook), every owned window of the active window (or active window parent) is moved to the selected desktop or monitor.

### Transparent (alpha blended)

Click this check box to toggle transparency on/off for the window.

### Always on top

Click "**Always on top**" to toggle the option on/off for the window.

When a window is marked as being always on top, it will always be placed in front of any other window. So you can use this settings on windows that you don't want to appear behind or obscured by other windows.

If two windows have the "Always on top" enabled and they are dragged on top of one another, then the last active window is placed in the top position.

## Visible on all desktops

Click **Visible on all desktops** to toggle the visibility (on/off) of the window on all desktops.

Enabling this option causes the window to appear on all desktops.

## Collapse to desktop

**Note:** This option is only available if the application has the **Visible on all desktops** option enabled.

Enabling "**Collapse to desktop**" disables the "Visible on all desktops" option and moves the active application window to the current desktop.

## Individual Settings

**Note:** In order to see the Individual Settings option enabled on the **nView Options** menu on an application's title bar, you need to have checked (enabled) the **Individual Settings** option in the nView Menu Options dialog box, as explained in "nView Menu Options" on page 121 and shown in Figure 9.25.

- **Enable** lets you turn *on/off* the individual settings for the application without losing those settings.
- **Edit:** To edit individual settings for an application, select **Individual Settings** > **Edit** on an application's nView option menu.

  **Note:** To set up individual settings for an application, click **Individual Settings** from the **Applications** panel. For further details, see "Individual Settings" on page 125 and "Individual Settings" on page 179.

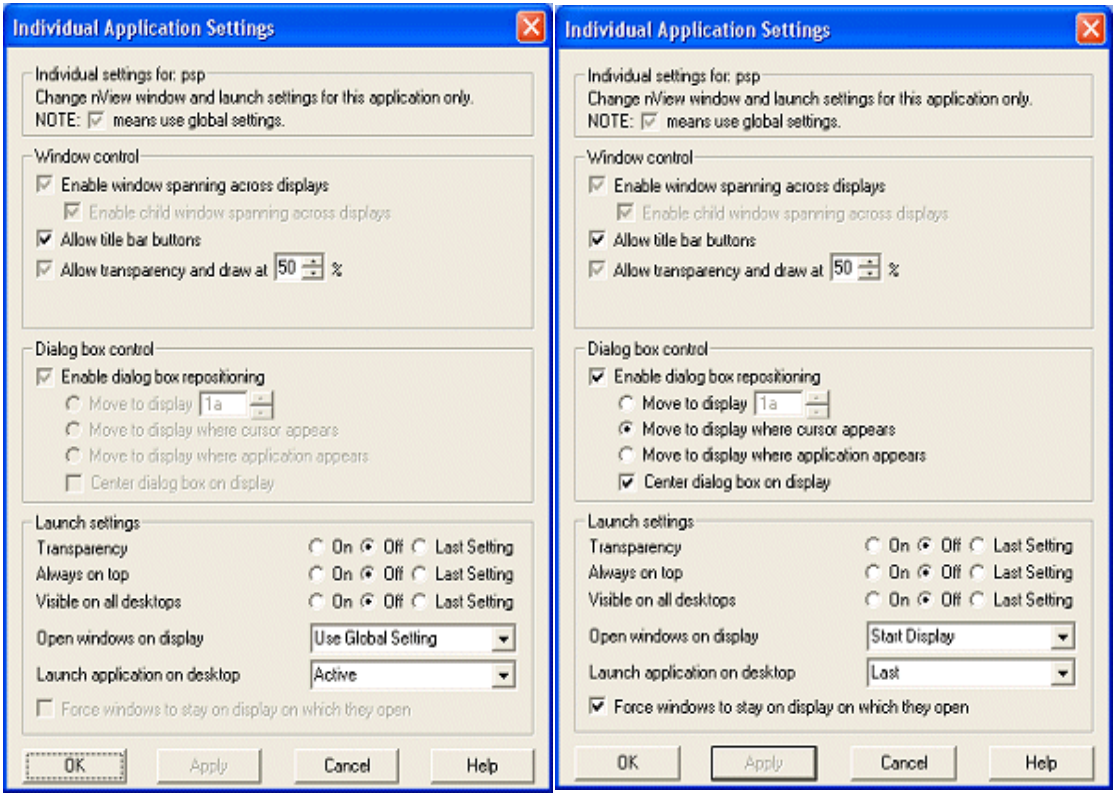
  When you choose to set up individual settings for an application, the Individual Application Settings dialog box appears (Figure 9.26). From this dialog box, you can set up both individual window settings as well as launch settings for the application.

  Each window management or dialog box management setting can have one of three states:

- **On** means that the feature is always enabled for this application and may be represented by a solid colored square, a check mark (as shown in the example in Figure 9.26) or other indicator, depending on the application.
- **Off** means that the feature is always disabled for this application and is always represented by an empty square; unchecked.
- **Global** means that the application uses the standard nView Desktop Manager settings for the feature and may be represented by a check mark, solid colored square (as shown in the example in Figure 9.26) or other indicator, depending on the application.

**Note:** The **Allow transparency and draw at n%** option is simply an *on/off* setting that either enables or disables transparency for the application and sets an individual transparency level to be used for the application during transparent operations.

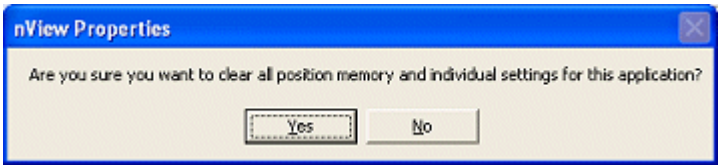
**Figure 9.26** Individual Application Settings Dialog Box: 2 Examples



## Individual Settings: Clear all

**Clear all** displays the message in Figure 9.27.

**Figure 9.27** Prompt for Clearing Individual Settings for an Application




- Click **Yes** only if you want to erase all individual settings that Desktop Manager may have stored for the application.
- Otherwise, click **No**.

## Individual Settings: Other Methods of Clearing

You can also use the following means to clear all **Individual Settings** for an application:

- Load a profile, which resets your application database.
- Use the **Remove** option on the nView Desktop Manager Properties Application panel. (See "Managing Applications: For Advanced Users" on page 172.)

## Menu Options

When you click **Menu Options**, the nView Menu Options dialog box (Figure 9.25) opens.

See "nView Menu Options" on page 121 and "nView Menu: Description of Options" on page 124 for details.

## About this Application …

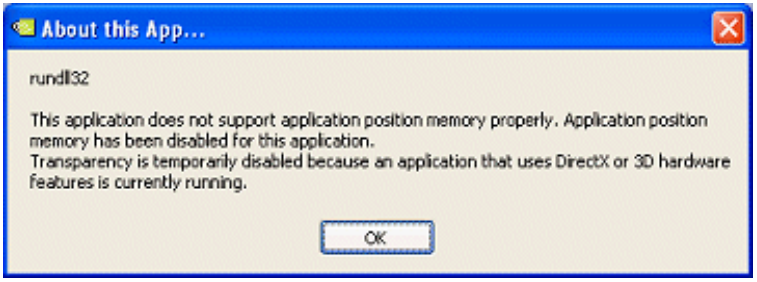
This nView menu option appear *only* if an nView Desktop Manager function is disabled for the application.

**Note:** Selecting this option will open an information box that will describe the nView Desktop Manager feature that is disabled. A sample "About this Application" is shown in Figure 9.28.

## Application-specific nView Menu Options

In addition to the standard nView menu options described above, certain applications have custom features available for them on the nView options menu. Note that when an application has special nView Desktop Manager features enabled, the "**About this application…**" option will be displayed on the nView options menu and will provide a brief description as to how to use the feature.

**Figure 9.28** Sample "About this Application" Information Box



CHAPTER 10

# USING EFFECTS

The following major topics are discussed in this chapter:


- "About Effects" on page 129
- "Accessing the Effects Tab" on page 130
- "Require Shift key to be held down" on page 131
- "Windows Color Keying" on page 132


## About Effects

The Desktop Manager Effects panel provides 2D and 3D features for windows on the desktop. Effects features can be used in both single-display and multi-display computer setups.

Among the features you can enable from the Effects panel is increasing the speed of windows opening/closing and to change Windows behavior to automatically activate windows underneath your cursor. You can also add transparency support to windows on the desktop.

Key benefits of using Effects features are that

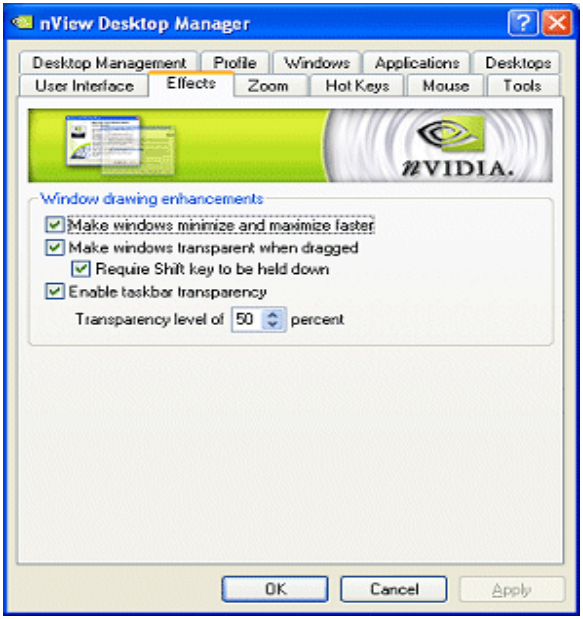
- Speed up maximizing, minimizing restoring, and opening windows.
- Making a window transparent effectively gives you more space on your desktop

# Accessing the Effects Tab

1 If you need help accessing the nView Desktop Manager control panel, see "Accessing and Enabling the nView Desktop Manager Control Panel" on page 59.

2 Click the **Effects** tab or menu option to display the nView Desktop Manager **Effects** panel (Figure 10.1 and Figure 10.2).

**Figure 10.1** Effects Panel for NVIDIA GeForce-based GPUs




# Window Drawing Enhancements

## Make Windows Minimize and Maximize Faster

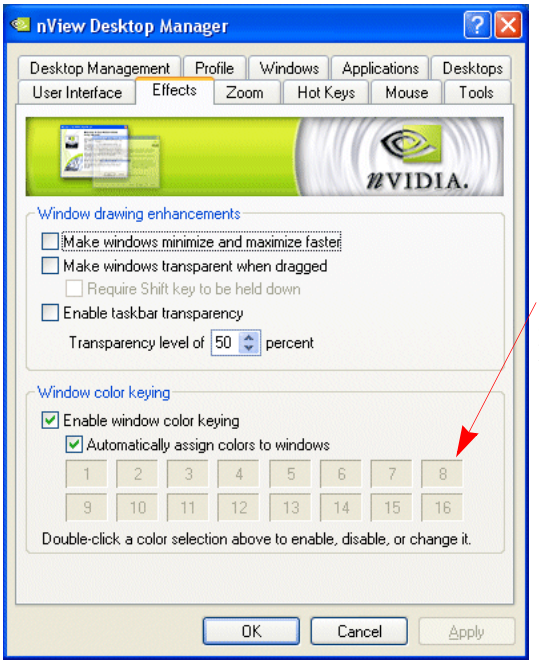
This option accelerates opening, maximizing, and restoring application windows.

## Make Windows Transparent When Dragged

This option enables window transparency when windows are dragged. Windows become transparent as you hold down the mouse option while on the

window's title bar, allowing you to quickly see what is underneath the window. When you release the mouse option, the window becomes opaque.

**Figure 10.2** Effects Panel for NVIDIA Quadro-based GPUs




**Color Keys**: Double-click any of the colors to display the Color Key Properties dialog box where you can enable, disable, or edit the color.

### Require Shift key to be held down

If you want to perform the "**Make windows transparent when dragged**" action while holding down the **Shift** key, enable the **Require Shift key to be held down** option.

## Enable Taskbar Transparency

This option makes the desktop taskbar transparent

### Transparency Level

This option sets the degree of transparency for the transparency features above. The higher the percentage you select, the more transparent the window appears.

**Note:** You can change the transparency level of an individual application using the **Individual Settings** feature. For details, see Chapter 14, which discusses the features of the Applications panel.

**Note:** Transparency percentage values are limited to a maximum of 80%.

# Notes on Transparency Support

- Transparency is only supported on Windows 2000/XP.
- Transparency can take a lot of processing power. If Desktop Manager detects that your system may be sluggish when dragging large transparent windows, you will be given an option to disable transparent window dragging for windows larger than a certain size.
- Transparency is disabled when a 3D or hardware overlay application is running.
- Some applications do not support transparency, in which case, an **About this application . .**. menu choice is added to the nView Extension menu for that application.

# Windows Color Keying

**Note:** Color Keying options are available only when using NVIDIA Quadro-based GPUs.

## Enable Windows Color Keying

When you enable this option, nView Desktop Manager colors the border of application windows according to:

- **Individual Application Settings** (if you have enabled this option, *see* "Individual Settings" on page 125 *and/or* "Individual Settings" on page 179) *or*
- **Automatically assign colors**. . option described below.

### Manipulating Color-Keyed Windows Using Hot Keys

Color keyed windows can then be manipulated using color-keyed hot keys that you can define using options on the Hot Key panel. When you press a color-keyed hot key combination, it will toggle the corresponding color-keyed window to be brought to the forefront, maximized, and visible on all desktops. In other words, it allows for a window to be immediately accessible with a single keystroke no matter where on the desktop(s) the window is located.

For details, see "Using Hot Keys" on page 150.

### Automatically Assign Colors to Windows

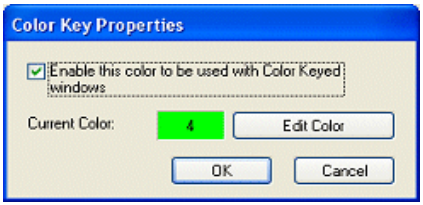
When enabled, nView will automatically color key windows that are open on the desktop using enabled colors not used by individual application settings.

Colors will be automatically chosen out of the color pool as long as colors are available. If all colors have been used, new windows will not be colored.

**Using the Color Key table**
To enable, disable, or edit any of the colors in the Color Key table (shown in Figure 10.1), follow these steps:

1 Double-click any of the colors to display the Color Key Properties dialog box shown in Figure 10.3.

**Figure 10.3** Color Key Properties




2 **To disable the color** to be used with the Color Keyed windows, click the checked box to remove the check mark and click **OK**. Notice that the color for that number (in this case "4") is removed from the Color Keyed table in the Effects panel.

3 **To enable a color**, follow these steps:

   a Click a uncolored box number ("4" in this case since it was disabled in the previous example) to display the Color Key Properties dialog box again.

   b Click the **Enable the color key . . . . .** check box to insert the check mark.

   c Click **OK**.

4 To **edit the color to be used** with the Color Keyed window, follow these steps:

   a From the Effects panel, double-click the color number you want to edit.

   b Click the **Edit Color** options from the Color Key Properties dialog box.

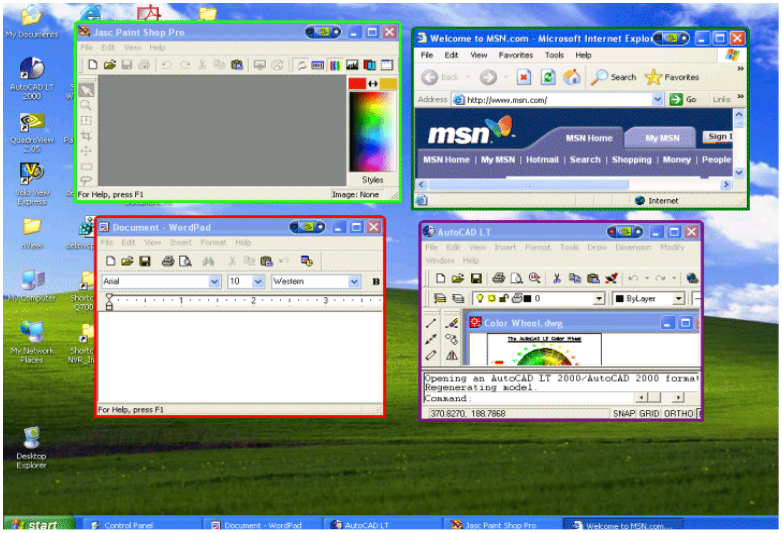
   c Choose the color you want from the Color palette dialog box and click **OK** to return to the Color Key Properties dialog box. Notice the new color is reflected in the **Current Color** field.

5 Click **OK**. Notice the new color for the number is reflected in the **Color Key** table on the Effects panel.

## Colored Application Window Borders

Figure 10.4 shows sample applications with colored window borders.

**Figure 10.4** Sample Colored Application Window Borders



CHAPTER 11

# USING ZOOM OPTIONS

This chapter contains the following sections:


- "About Zoom Options" on page 136
- "Accessing the Zoom Tab" on page 137
- "Zoom Features: Display Properties vs. Desktop Manager" on page 138
- "Zoom Window Styles" on page 139
- "Using the Mouse Wheel to Change Zoom Levels" on page 139
- "Showing the Cursor in a Zoom Window" on page 140
- "Automatically Moving Zoom Window to the Next Screen" on page 140
- "Enabling Bi-Directional Editing" on page 140
- "Inverting the Colors of the Zoomed Image" on page 141
- "Zooming Video Playback (disables overlay)" on page 141
- "Showing the Zoom Window" on page 141
- "Full Screen Video Zoom" on page 149


## About Zoom Options

Zoom window shows you a user definable zoom area of your desktop

The Zoom feature of Desktop Manager provides dynamic zoom functionality on the desktop. Zoom features can be used by both single-display and multi-display users. Among the zoom features you can enable from the Zoom panel is a resizable "zoom window" to zoom in on areas of the desktop for easier reading

or for fine editing. The zoom window shows you a user definable zoom area of your desktop.

Key benefits of using zoom features are the following:

- You don't have to change resolutions to view and/or edit small graphics or text – you can simply open up your "zoom" window.
- You can display a portion of your desktop on a second display without additional hardware.

# Accessing the Zoom Tab

1. If you need help accessing the nView Desktop Manager control panel, see "Accessing and Enabling the nView Desktop Manager Control Panel" on page 59.
2. Click the **Zoom** tab or menu option to display the nView Desktop Manager **Zoom** panel (Figure 11.1).

**Figure 11.1** Zoom Panel for *Magnifying Glass* and *Center on cursor* Zoom Styles

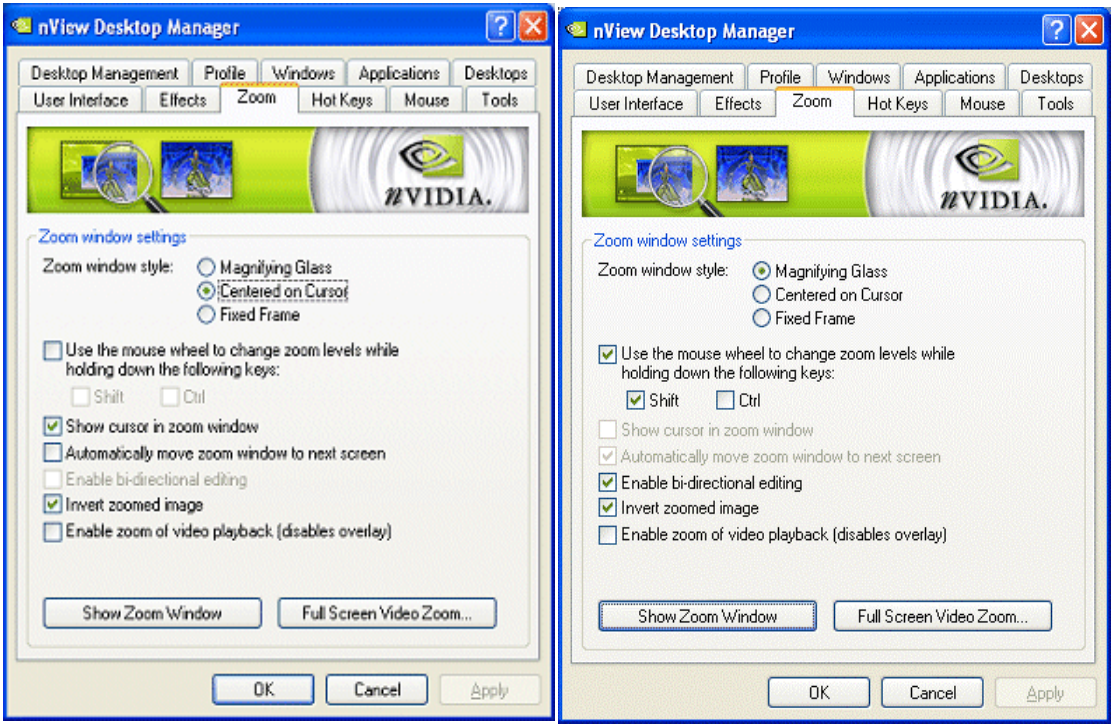
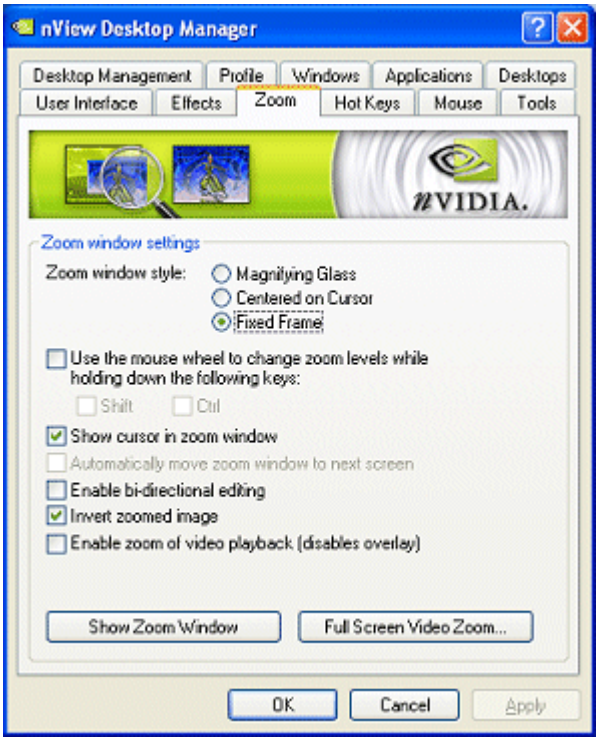


**Figure 11.2** Zoom Panel for *Fixed Frame* Zoom Style




# Zoom Features: Display Properties vs. Desktop Manager

If you are using an NVIDIA multi-display GPU-based graphics card, you have several zoom options available.

- If you just want a Windows tool that lets you zoom certain areas of the desktop in a window, use the "Zoom Window" tool described in this section.
- If you are specifically interested in zooming video playing back on your computer from a DVD or other video source, it is recommended that you use the Overlay Video Mirroring controls described in the *NVIDIA Display Properties User's Guide.* You can set up Video Mirroring to zoom and automatically display full-screen video on your second display device.

  **Note:** The nView Desktop Manager Zoom panel contains the **Video Mirror Controls**. Clicking this option will give you access to the Overlay Controls panel where you can set Video Mirror options.

# Zoom Window Styles

This selection controls what type of Zoom window you want to open. nView Desktop Manager supports three types of Zoom windows:

- Magnifying Glass
- Centered on Cursor
- Fixed Frame

## Magnifying Glass

This option creates a magnifying glass style zoom window when you launch a Zoom Window. The magnifying glass zoom window contains a white square inside the zoom window. For details on using this option, see "Using Magnifying Glass Style Zoom" on page 145.

## Centered on Cursor

This option creates a zoom window that displays a magnification of the area around the mouse cursor when a zoom window is launched. For details on using this option, see "Using Cursor Style Zoom" on page 144

## Fixed Frame

This option creates a zoom window that displays a magnification of a fixed area on your desktop. For details on using this option, see "Using Fixed Frame Zoom" on page 145.

# Using the Mouse Wheel to Change Zoom Levels

- To use the mouse wheel to change zoom levels when a zoom window is active, enable the "**Use the mouse wheel to change zoom levels...**" option.

  **Note:** In addition, or as an alternative, you can also use the "Zoom Level" menu from the Zoom Window to change zoom levels. See "Zoom Window Menus" on page 142.

- To use the mouse wheel to change zoom levels while holding down one of the following keys (**Shift** *or* **Ctrl**), follow these steps:

  a. Click the **Use the mouse wheel to change zoom levels. . . .** check box to enable the option.

b Then click **Shift** and/or **Ctrl**.

c Click **Apply**.

## Showing the Cursor in a Zoom Window

**Note:** This option doesn't apply under Magnifying Glass zoom.

This option causes the mouse cursor to be shown in the zoom window when enabled (checked). This feature only applies to centered on cursor and fixed frame zoom styles. When enabled, the mouse cursor will be shown in the zoom window if the mouse cursor is in the area of the screen that is being zoomed. When disabled (unchecked), the mouse cursor will not appear in the zoom window.

## Automatically Moving Zoom Window to the Next Screen

**Note:** The option **Automatically Moving Zoom Window to the Next Screen** *does not apply* if **Magnifying Glass** or **Fixed Frame** zoom window style is enabled.

When the option **Automatically Moving Zoom Window to the Next Screen** is enabled and the zoom window is maximized, nView Desktop Manager will automatically move the window to the next screen if your cursor moves onto the Zoom window.

## Enabling Bi-Directional Editing

**Note:** The **Enable bi-directional editing** option applies only to the **Magnifying Glass** and **Fixed Frame** style zoom windows and cursor-related functions, but not text editing.

When you enable the **Enable bi-directional editing** option, you can use your mouse with applications under either **Magnifying Glass** or **Fixed Frame** zoom windows using the application's standard mouse-editing methods.

Using an example of the Microsoft Accessories **Paint** program, (**Start** > **Programs** > **Accessories** > **Paint**), follow these steps:

1 Open the Zoom window (see "Showing the Zoom Window" on page 141 for details) and place the **Magnifying Glass** or **Fixed Frame** zoom window over the Paint window so that the drawing buttons as well as some of the paint area is being magnified.

2 Press the paint buttons on the Zoom window (not the paint window) and then draw directly on the zoom window. This allows for easier editing since the area is magnified.

# Inverting the Colors of the Zoomed Image

Enable the **Invert zoomed image** option to invert the colors of your zoomed image.

To use the option, click the option to insert a check mark in the check box and click **Apply**.

# Zooming Video Playback (disables overlay)

**Note:** This option doesn't apply under Magnifying Glass zoom.

The Zoom Window cannot zoom video data contained in hardware overlay windows. Hardware overlay is used by default to play back video data. Thus if you open a video playback window, the Zoom window normally will not zoom the data.

This option lets you disable hardware overlay when the zoom window is open. This forces video playback not to use hardware overlay.

**Note:** This setting does not affect videos that are currently playing when the Zoom window opens but only affects video windows opened after the Zoom window. In other words, if a video is playing before you open a zoom window, the video data will not be zoomed. If a video is opened after the zoom window is open, the video data will be zoomed if this option is set.

# Showing the Zoom Window

This option, when checked, opens a "Zoom Window" that can display a magnification of a selected area of your screen using the zoom style you have selected (i.e., "Magnifying Glass", "Centered on Cursor", or "Fixed Frame" style zooming).

- When a Zoom window is open, this button changes to **Hide Zoom Window**. Pressing the button when it is labeled "Hide Zoom Window" will close the open Zoom window.
- Using the Zoom Window, you can change zoom levels, the update rate of the zoomed data, and even toggle the window on or off with a hot key.

# Zoom Window Menus

The following topics are discussed in this section:


- "Zoom Level" on page 142
- "Zoom Refresh" on page 142
- "Zoom Style" on page 143
- "Using Cursor Style Zoom" on page 144
- "Using Magnifying Glass Style Zoom" on page 145
- "Using Fixed Frame Zoom" on page 145


## Zoom Level

Zoom Level can be set from 1x to 10x (Figure 11.3).

**Note:** You can also change zoom levels with the mouse wheel by itself or in combination with the **Ctrl** and/or **Shift** keys if you selected this option in the Zoom panel.

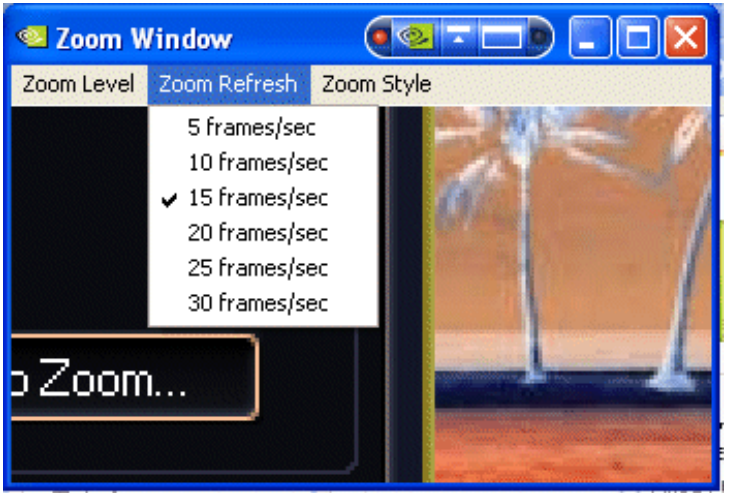
**Figure 11.3** Zoom Level Menu

## Zoom Refresh

Zoom Refresh can be set from 5 frames/second to 30 frames/seconds, in increments of 5 (Figure 11.4).

**Note:** Higher refresh rates require more processing power.

**Figure 11.4** Zoom Refresh Menu

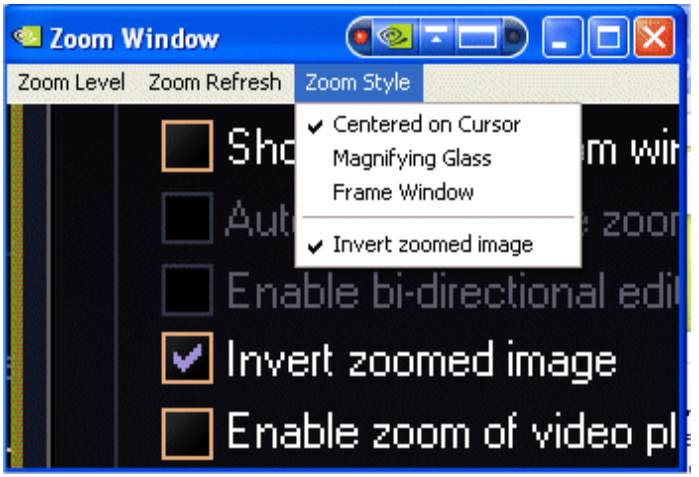



## Zoom Style

Zoom Style can be set to any one of the following settings as shown in Figure 11.1 and Figure 11.5.

- **Centered on cursor**
- **Magnifying glass**
- **Frame Window**

**Figure 11.5** Zoom Style Menu

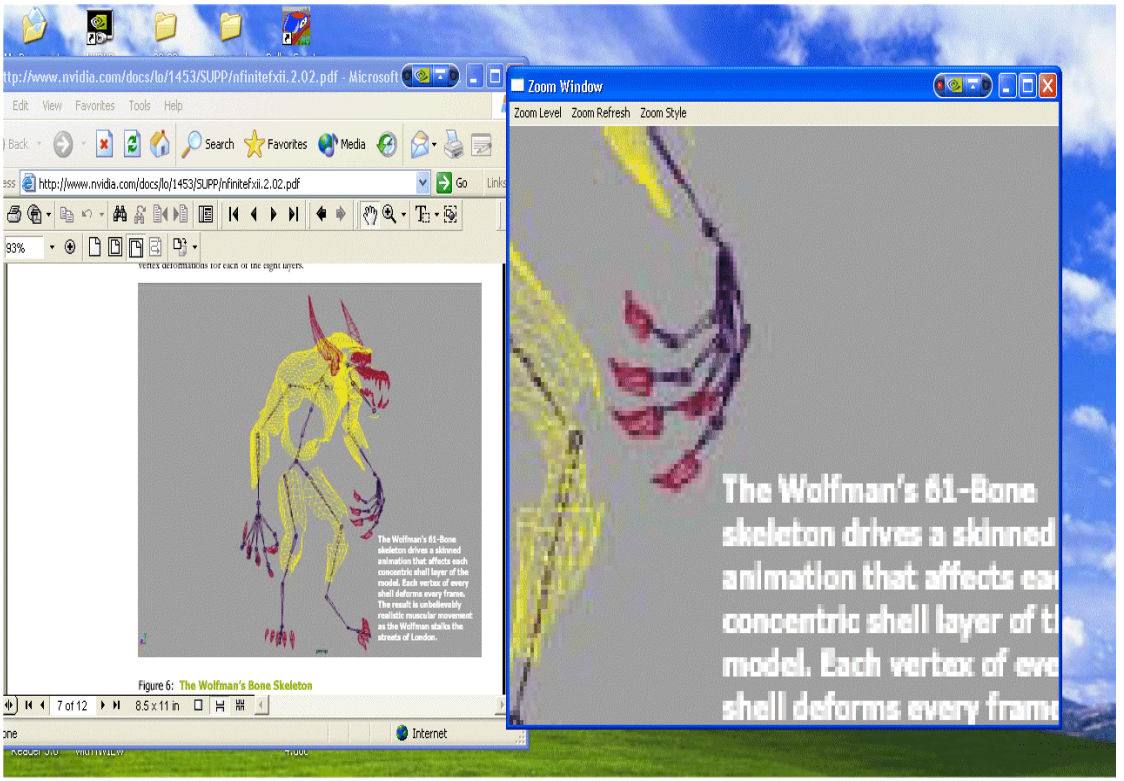


## Using Cursor Style Zoom

1 To use the Cursor style zoom, move your mouse cursor to the area of your screen (or open application) that you want to zoom.

2 You will see the area magnified in the zoom window, as shown in Figure 11.6.

**Figure 11.6** Cursor Style Zoomed Area in Zoom Window (1)




Another cursor style zoom window is shown in Figure 11.7 below.

**Figure 11.7** Cursor Style Zoomed Area in Zoom Window (2)

## Using Magnifying Glass Style Zoom

1 Enable **Magnifying glass** zoom style either from the Zoom panel (shown in Figure 11.1) or (if you already have the zoom window open) from the Zoom menu (Figure 11.5).

2 If you enabled the option from the Zoom panel, when you click the **Show Zoom Window** option from the Zoom panel with the **Magnifying glass** option enabled (checked), the magnifying glass style zoom window appears with a white square inside the window (Figure 11.8).

**Figure 11.8** Magnifying Glass Style Zoom Window

To use the Magnifying Glass style zoom, follow these steps:

1 Adjust the zoom level to increase or decrease the size of the white square. To adjust the zoom level you can either use the mouse wheel (or the mouse wheel and the **Ctrl/Shift** key options) or the Zoom Level menu options on the Zoom Window.

2 Click on the title bar of the Zoom window and drag the zoom window over the area on the screen that you want to magnify so that the transparent white square encompasses the area to magnify. Figure 11.9 shows an example of the magnifying glass style zoom window covering an area of an open window. Note the white box surrounding the display area.

3 Release the mouse option. The section of the screen inside the transparent white square now becomes magnified to fill the entire zoom window. Figure 11.10 shows the result of a magnifying glass zoom.

## Using Fixed Frame Zoom

When you click **Show Zoom Window** from the Zoom panel with the **Fixed Frame** option enabled (checked), the Zoom Window opens along with a second, smaller "zoom source" window labeled "**Zoom Window - Fixed Frame**", as shown in Figure 11.12.

**Figure 11.9** Magnifying Glass Style Zoom Window Over Zoom Area

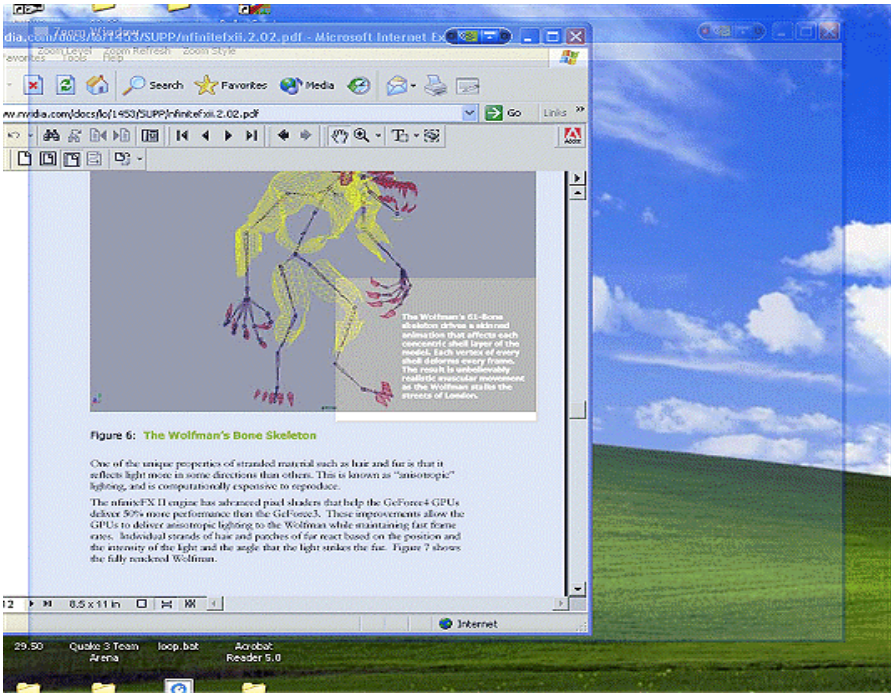



**Figure 11.10** Magnifying Glass Style Zoomed Area in Zoom Window (1)

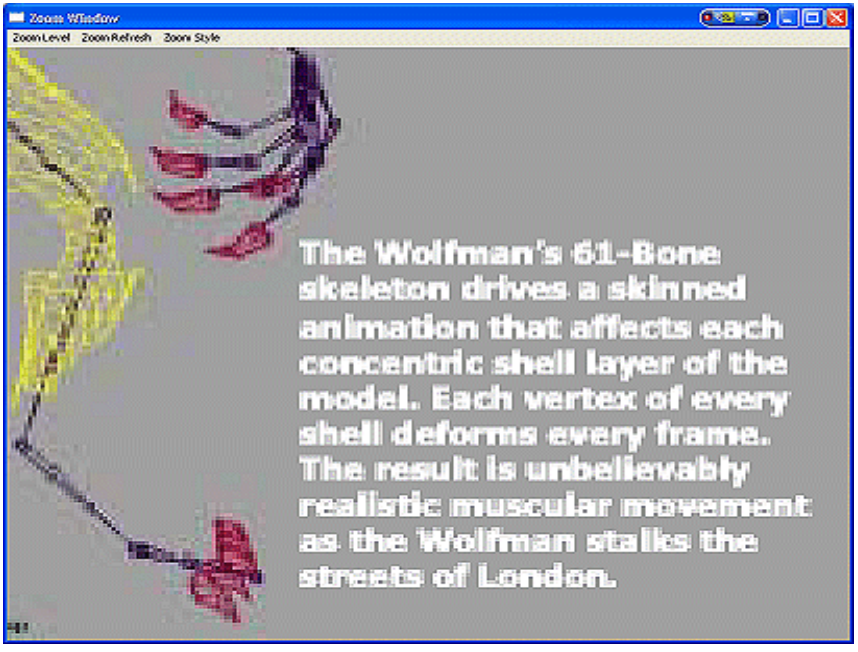


**Figure 11.11** Magnifying Glass Style Zoomed Area in Zoom Window (2)

To use the Fixed Frame style zoom, follow these steps:

1 Confirm that the Zoom Style is set to **Fixed Frame**.

2 Click **Show Zoom Window**.

In the Figure 11.12 example, the small **Zoom Window-Fixed Frame** "zoom source" window appears on the right and the resulting magnified area is shown in the larger **Zoom Window**.

**Figure 11.12** Zoom Window-Fixed Frame Window

Large **Zoom Window** showing magnification of the image in the "**Zoom Window - Fixed Frame** "zoom source" window shown on the right.

"Zoom source" **Zoom Window - Fixed Frame** window can be moved to different areas on your desktop.

3 Move the small "**Zoom Window – Fixed Frame**" window (labeled in Figure 11.12) to another area of the desktop that you want to zoom.

**Note:** Now that you have adjusted the position of the **Zoom Window - Fixed Frame** "zoom source" window, it is automatically hidden while the magnified contents are displayed in the large **Zoom Windows**, as shown in Figure 11.13.

**Figure 11.13** Magnified Area in Zoom Window: Zoom Window

Click the **Fixed Frame** menu to re-display (unhide) the "zoom source" **Zoom Window-Fixed Frame** window.

4 To toggle the **Zoom Window - Fixed Frame** "zoom source" window on and off (display or hide), click the **Fixed Frame** menu option on the main Zoom Window, as shown in Figure 11.13.

When the Zoom Window is not active, the "zoom source" window will be hidden but the area where it was last dropped will continue to be zoomed and shown in the Zoom Window.

a To re-display the **Zoom Window - Fixed Frame** window, click the **Fixed Frame** menu option in the main **Zoom Window**.

b Then move the now visible **Zoom Window - Fixed Frame** window to the new area of the desktop you want to zoom."

5 To adjust the zoom level, use either the mouse wheel or the mouse wheel and the **Ctrl/Shift** key options or the **Zoom Level** menu options on the main Zoom Window.

**Note:** You can adjust the zoom level to increase or decrease the size of the **Zoom Window – Fixed Frame**. In other words, the higher the Zoom Level you set, the smaller the size of the **Zoom Window – Fixed Frame** becomes.

**Note:** You can also adjust the zoomed area by resizing the main Zoom Window.

# Full Screen Video Zoom

**Note:** You *cannot use* Full Screen Video Zoom if you have only one display device attached, i.e., your are in nView "Single-Display" mode.

To display full-screen video on one of your display devices,

1. Click the **Full Screen Video Zoom** option to open the NVIDIA display properties Full Screen Video panel.
2. Click the **Full scree device** list.
3. Select **Auto-select** if the nView Mode list on the nView Display Modes panel set to nView Dualview or one of the Span modes.
4. Select **Primary display** or **Secondary display** if the nView Mode list on the nView Display Modes panel set to nView Clone mode.

For further details on using the Full Screen Video options, refer to the *NVIDIA Display Properties Desktop User's Guide: Driver Release 50.*

CHAPTER 12

# USING HOT KEYS

The following topics are discussed in this chapter:


- "About Hot Key Options" on page 150
- "Accessing the Hot Keys Tab" on page 151
- "Selecting an Action" on page 152
- "Adding a Hot Key" on page 155
- "Removing a Hot Key" on page 158
- "Removing All Hot Keys" on page 158
- "Active Hot Keys List" on page 158


## About Hot Key Options

The Hot Key features can be used by both single-display and multi-display users.

nView Desktop Manager lets you set up hot keys (shortcut keys or key combinations.) to access and perform virtually every action of the Desktop Manager. The key benefits of using hot keys is quick access to common functions with a single keystroke.

Using the Hot Keys features (Figure 12.1), you can

- View a list of hot keys that you have defined for your system.
- Arranged hot keys in a tree view
- Quickly add, remove, or edit defined hot keys

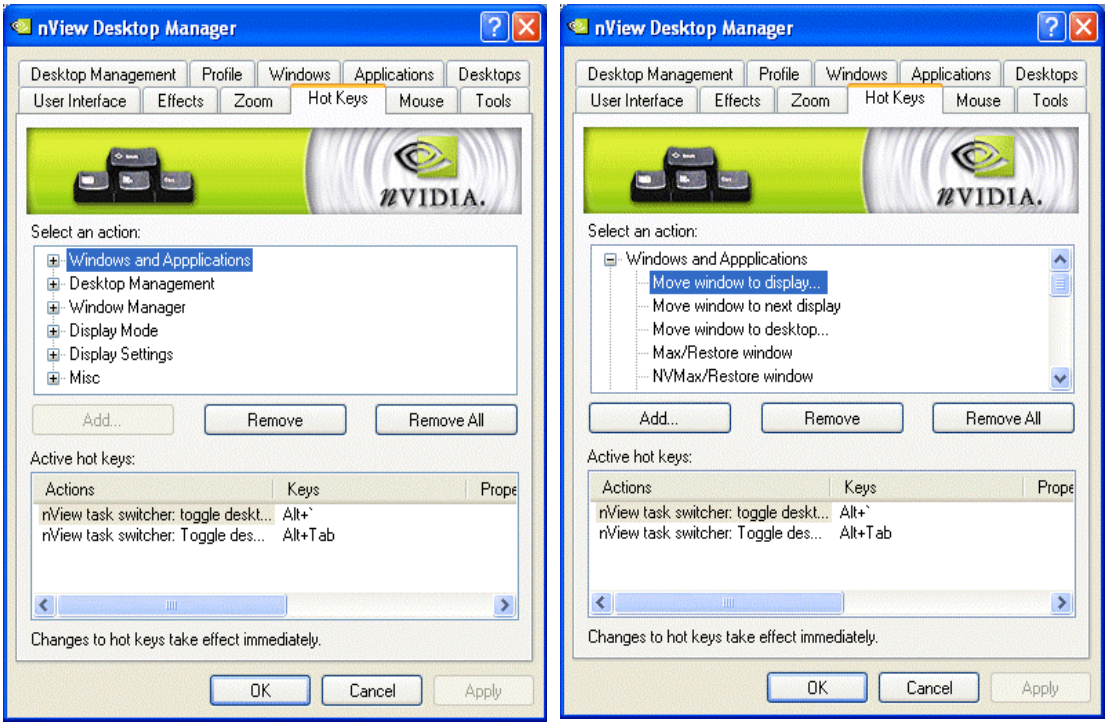
- Assign multiple hot keys to one action but cannot assign multiple actions to one hot key
- Copy assigned hot keys to the clipboard
- Change the functionality of a hot key from operating on the active window to operating on the window under the cursor

# Accessing the Hot Keys Tab

1 If you need help accessing the nView Desktop Manager control panel, see "Accessing and Enabling the nView Desktop Manager Control Panel" on page 59.

2 Click the **Hot Keys** tab or menu option to display the nView Desktop Manager **Hot Keys** panel (Figure 12.1).

**Figure 12.1** Hot Keys Panel



# Selecting an Action

The **Select an Action** list box (Figure 12.1) displays a list of actions that can be performed when you press a key or combination of keys, i.e., assigned hot keys for the actions.

1. Select an action by clicking it.
2. Use the scroll bar to access the complete list of actions.

   The actions and their descriptions are listed below.
3. Go to the section "Adding a Hot Key" on page 155 to assign the hot key to the selected action.

## Windows and Applications Actions

- **Show on all desktops** toggles the active window between showing on all desktops or on a single desktop.
- **Collapse to desktop** causes the active window to show on the current desktop only.
- **Move window to display …** moves the active window to a user-specified display.
- **Move window to next display** – will move the window to the next monitor on your system.
- **Move window to desktop…** moves the active window to a user-specified desktop.
- **Max/Restore window** toggles a maximize/restore function on the active window.
- **Minimize window** – minimizes a window to the taskbar and restore if the window still selected.
- **Collapse/Restore window**" -- toggles between **c**ollapsing the application window to its title bar and restoring the window to its former size.
- **Toggle window Z-order** – moves the window to the top if it is not at the top. Moves window all the way to back if it is on top, but it does *not* change activation state of window.
- **Toggle transparency** – toggles the active window between being transparent and opaque.
- **Toggle always on top** toggles the active window between being always on top or not being on top.
- **Show on all desktops** – forces the window to show up on all desktops

- **Collapse to desktop** – moves the application to the current desktop only and turns off the "Show on all desktops" functionality.
- **Show nView options menu** – displays the nView options menu for the currently active window.

## Desktop Management Actions

- **Show desktop name** – brings up the desktop name of the current desktop.
- **Activate desktop…** – switches the display to a user-specified desktop.

  After you enter the keystroke in the text box and click **Add**, a list box appears with all possible desktop targets. Choose a desktop that you will activate or "switch to" with the hot key you assigned.
- **Next desktop** – switches the display to the next desktop.
- **Previous desktop** – switches the display to the previous desktop.

## Window Management Actions

- **Send all windows to display** – Gathers all windows on the desktop and cascades them on the selected display device.
- **Toggle color-keyed windows** – Use this action when you have color-keyed windows.
  - When you press the hot key you assigned to this action, the window with the color key you specified in the action properties will be maximized and brought to the current desktop.
  - Press the hot key again and the window will be sent back to its original position.
- **Collapse all windows** – collapses all windows on the desktop to their title bars. If all windows are already collapsed, this action restores all windows to original size.

## Display Mode Actions

- **Switch to next display device** – is functional only in single-display mode when more than one display device is connected. In this case, your video display will switch to the next device.

  **Note:** Note that this hot key only works when your display card is running in single-display mode.

- **Toggle TV output** – toggles TV output on if TV is connected and you are running in nView single-display mode.
- **Toggle LCD scaling** – turns LCD scaling on/off if you are using a flat panel display.
- **Toggle Clone mode** – When running in nView single-display mode, this action will toggle Clone mode on and off and will cycle through display devices.

  **Note:** This hot key is only available with Windows XP and only works when you are in single-display or nView Clone mode.
- **Rotate display** – allows you to rotate display devices or desktops with a hot key to the same modes available on the NVIDIA display properties NVRotate panel:
  - **Landscape**
  - **Portrait**
  - **Inverted Landscape**
  - **Inverted Portrait**

## Display Settings Actions

- **Show Color-Keyed window** – lets you easily control color-keyed windows. After you define a hot key corresponding to a color (for details, see "Examples of Actions Requiring Additional Information" on page 156), then when you press this hot key, it will toggle the corresponding color-keyed window to be brought to the forefront, maximized, and visible on all desktops. In other words, it allows for a window to be immediately accessible with a single keystroke no matter where on the desktop(s) the window is located.
- **Toggle NVKeystone mode** – toggles the NVKeystone mode between *off*, *on*, and *adjust*.

  **Note:** NVKeystone must be enabled (checked) on the **Tools** panel for this hot key to have any effect.
- **Show display grid** – shows the monitor grid for the monitor the cursor is on.
- **Edit display grid** – allows you to edit the monitor grid which the cursor is on.
- **Adjust display brightness/contrast/gamma** – allows you to set hot keys to adjust the display settings up and down as produced by your video card.
- **Reset gamma, brightness, contrast to default** – resets gamma, brightness, and contrast values to their default.

## Miscellaneous Actions

- **Open nView Desktop Manager control panel** – opens the nView Desktop Manager control panel
- **Run application…** – runs a user-specified application. Note that after selection, a browse file dialog appears where you can select the program file you want to run.
- **Locate cursor** – highlights the area around the cursor allowing it to be located on the desktop.
- **Toggle zoom window** – shows and hides the zoom window.
- **Toggle zoom type** – toggles the zoom window between different types
- **Load profile** – loads a saved profile.
- **Save profile** – saves the current or newly created profile.
- **nView task switcher** – lets you set the hot keys used to switch between applications and desktops (**Alt-Tab**, **Alt-~** defaults)
- **Toggle NVToolbar** – lets you toggle the nView toolbar on and off

# Adding a Hot Key

**Note:** Only one action can be linked to a hot key. (If you attempt to add an action to a hot key that is already defined, an error message appears.) However, more than one Hot Key can be assigned to the same action.

To add a hot key, follow these steps:

1 From the Hot Keys panel, click **Add**. A Hot Keys Add properties dialog box appears (Figure 12.2 shows two examples) that lets you set the "hot key" keystroke and set any additional information the hot key needs to operate.

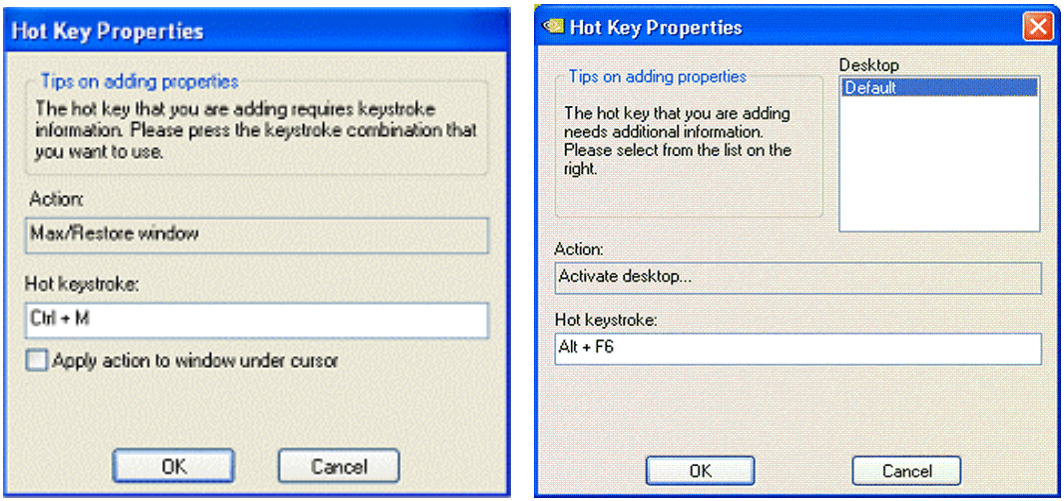
**Hot key stroke:** This text box lets you select the key or combination of keys you want to use to perform the selected action.

To use the text box, follow these steps:

a Click in the **Hot Key stroke** text box to display your cursor.

b Press the key or keys you want to use for the selection action. For example, if you press the **Ctrl** key followed by the **G** key, **Ctrl + G** appears in the text box.

**Figure 12.2** Hot Keys Properties Dialog Box Examples




**Properties:** Hot keys for certain actions require *additional information* to be entered in order to operate.

When these types of hot keys require additional information, the information is requested in this "Properties" dialog box. The information requested can be a display, desktop, profile, or an application designation. In the first three cases, a list of numbered display devices, named desktops, or named profiles appear from which you can select your choice.

If Desktop Manager requires an application input (e.g., for the "Run application" hot key action listed in "Selecting an Action" on page 152), a **Browse** button appears allowing you to browse for the application.

Also see "Examples of Actions Requiring Additional Information" on page 156.

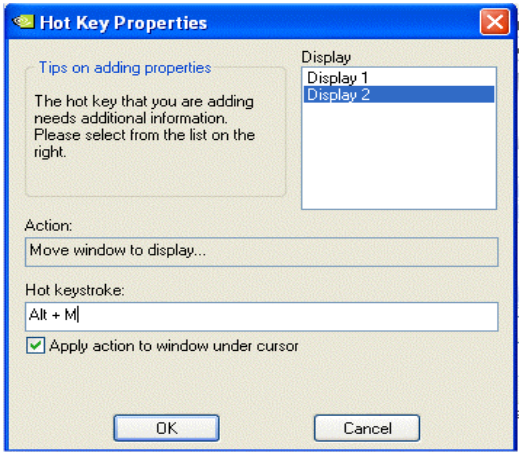
2 Click **OK** when you've entered the key strokes., the selected hot key action and keystroke combination are added to the Active Hot Keys list. Once a hot key is added, it is active and available for use.

## Examples of Actions Requiring Additional Information

### "Move window to display…"

An example is the "Move window to display…" action. Before a hot key can be added for this action, you must use the Hot Keys Properties dialog box (Figure 12.4) to enter the monitor (display device) on which you want the hot key to move windows

**Figure 12.3** Hot Keys Properties Dialog Box: for "Move window to display…" Action




## "Show color-keyed window"

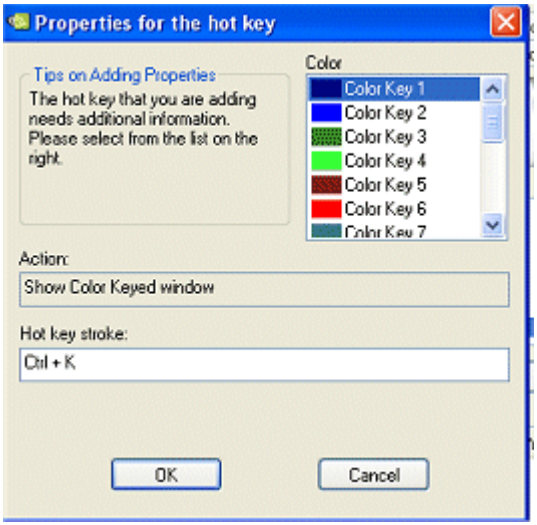
Another example is "**Show Color Keyed window**". Before a hot key can be added for this action, you must use the Hot Keys Properties dialog box to enter additional information.

To assign this action to a hot key, follow these steps:

1. Confirm that the "**Enable Window Color Keying**" option is enabled on the Effects panel but the "**Automatically assign colors to windows**" option is disabled (unchecked). For details, *see* "Enable Windows Color Keying" on page 132.
2. Set up a color for a particular application in the Individual Application Settings dialog box, as explained in Chapter 11, "Individual Settings" on page 125 and Figure 9.26.
3. Then, set up the "Show Color Keyed window" hot key for the corresponding color by following these steps:
   a. Double-click the Color Key number shown in the Properties dialog box for the hot key (Figure 12.4).
   b. Edit the color as explained in "Using the Color Key table" on page 133 in Chapter 8.
   c. Click **Apply** to add the hot key for this action.

   When the application is open and you press the assigned hot key, the application becomes "Visible on all desktops" so that you can see it on the active desktop (even if it is not on the active desktop) and is maximized.

**Figure 12.4** Hot Keys Properties Dialog Box: for "Show color-keyed window" Action




# Removing a Hot Key

The **Remove** option removes the selected hot key from the Active Hot Keys list. Once a hot key is removed, it is no longer active or available for use.

# Removing All Hot Keys

The **Remove All** option removes all hot keys from the Active Hot Keys list. Once the hot keys are removed, they are no longer active or available for use.

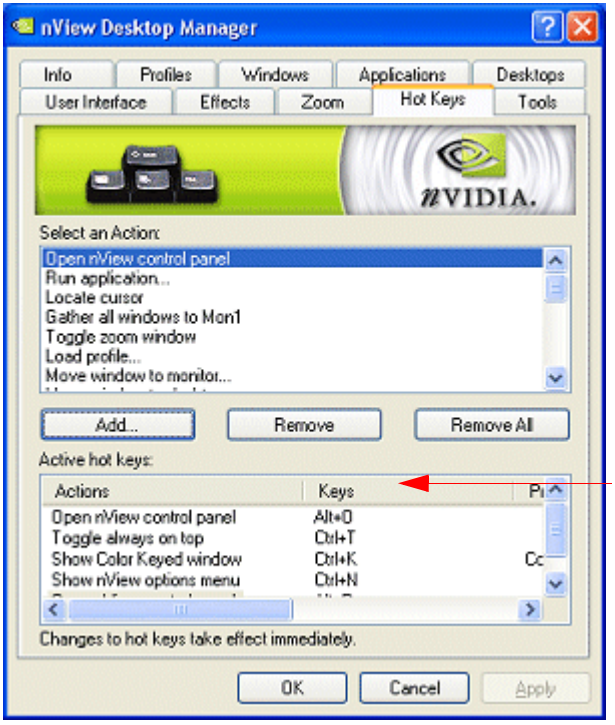
# Active Hot Keys List

The Active Hot Keys list box displays a list of hot keys that have been assigned and are currently active. Figure 12.5 shows parts of an Active Hot Keys list.

The Active Hot Keys list box displays the hot key itself (for example., **Ctrl + G**), the hot key action (for example, "Gather all windows to Mon1"), and then any further information for that hot key, such as Properties and Application Name information, if applicable.

**Note:** Use the scroll bar at the bottom of this list box to scroll to the right to see all the information columns for a hot key.

**Figure 12.5** Active Hot Keys List



CHAPTER 13

# CONFIGURING MOUSE EFFECTS

This chapter discusses the following major topics:


- "About Mouse Effects" on page 160
- "Mouse Panel Options" on page 161
- "General Settings" on page 161
- "Kinematics" on page 163


## About Mouse Effects

The nView Desktop Manager **Mouse** panel contains features that only apply to multi-display configurations.

**Note:** The options on this panel will be disabled (grayed) if you are using only one display.

A key benefit of using windows management features is that you no longer have to spend your time resizing, relocating, or searching for windows because you can specify how you want your windows to function. You can specify how you want windows to operate on your desktops and/or display devices.

For example, when you maximize an application under Span mode, it stretches across all display devices, which can be quite inconvenient. Using Windows management features, you can change this functionality to make the window only maximize to a single display device. Conversely, under Dualview mode, where windows normally maximize to a single screen, you can make applications maximize to the entire desktop.

Mouse features include the following:

- Throw window – allows you the "throw" a window to a screen edge. Sensitivity can be adjusted by the slider
- Jump dead screen areas causes the mouse to jump dead areas in non-rectangular multi-display environments (mouse has to be moving at a reasonable velocity)
- Toggle window Z-order with middle mouse button does the same as the hot key only with the mouse and to the window the cursor is over
- Auto-activate windows under the cursor
- Assign mouse movements to trigger different actions

# Mouse Panel Options

1. If you need help accessing the nView Desktop Manager control panel, see "Accessing and Enabling the nView Desktop Manager Control Panel" on page 59.
2. Click the **Mouse** tab or menu option to display the nView Desktop Manager **Mouse** panel (Figure 13.1).

# General Settings

**Note:** Be sure to click apply after enabling any of the below settings.

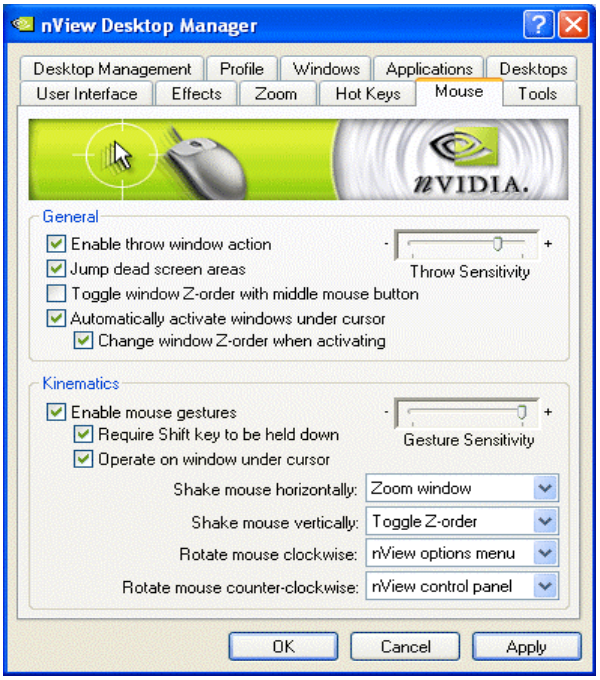
## Enable Throw Window Actions

When enabled, this option lets you to throw windows (i.e., while dragging a window, release the mouse) to screen edges.

## Jump Dead Screen Areas

Enabling the **Jump dead screen areas** option causes the mouse to jump dead areas in non-rectangular multi-display environments as long as your mouse is moving at a reasonable speed.

**Figure 13.1** Mouse Panel




## Toggle Window Z-Order with Middle Mouse Button

**z-order** refers to the visual layering of controls on a form along the form's z-axis (depth). The z-order determines which controls are in front of other controls.

Enable the **Toggle window Z-order with middle mouse button** option lets you use your middle mouse button (if applicable) to toggle the Z-order of the window on which your cursor rests.

## Automatically Activate Windows Under Cursor

Enable the option **Automatically activate windows under cursor** to make any window on which your cursor appears to become active and move to the front of the window order.

## Change window Z-order when activating

When the option **Automatically activate windows under cursor** is enabled, this option (**Change window z-order when activating**) controls whether or not the window that is auto-activated is brought to the front of the z-order.

Enable the **Change window z-order when activating** option to bring the auto-activated window to the front of the z-order.

# Kinematics

## Enable Mouse Gestures

In order to use any of the Kinematic options on this Mouse panel, you must first enable the **Enable mouse gestures** option. Click the check box and click **Apply**.

## Gesture Sensitivity

Use the Gesture Sensitivity slider to adjust the sensitivity of the mouse gestures listed on this panel to which you may have assigned actions.

## Require Shift key to be held down

If you want to hold down the **Shift** key while performing any of the mouse gestures listed on this panel, enable the **Require Shift key to be held down** option

## Operate on Window Under Cursor

Enable the **Operate on window under cursor** option if you want to perform any of the mouse gestures on the window that appears under you cursor.

## Shake Mouse Horizontally

1. To assign an action to the **Shake mouse horizontally** option, click the list and select the action you want to assign.
2. Click **Apply**.
3. When you shake the mouse horizontally, the action you just assigned is automatically performed.

## Shake Mouse Vertically

1. To assign an action to the **Shake mouse vertically** option, click the list and select the action you want to assign.

2 Click **Apply**.

3 When you shake the mouse vertically, the action you just assigned is automatically performed.

## Rotate Mouse Clockwise

1 To assign an action to the **Rotate mouse clockwise** option, click the list and select the action you want to assign.

2 Click **Apply**.

3 When you rotate the mouse clockwise, the action you just assigned is automatically performed.

CHAPTER 14

# USING TOOLS OPTIONS

This chapter contains the following major sections:


- "About Tools Options" on page 166
- "Accessing the Tools Tab" on page 166
- "Display Quality: NVKeystone" on page 167
- "Display Quality: Show Flat Panel Calibration Screen" on page 171

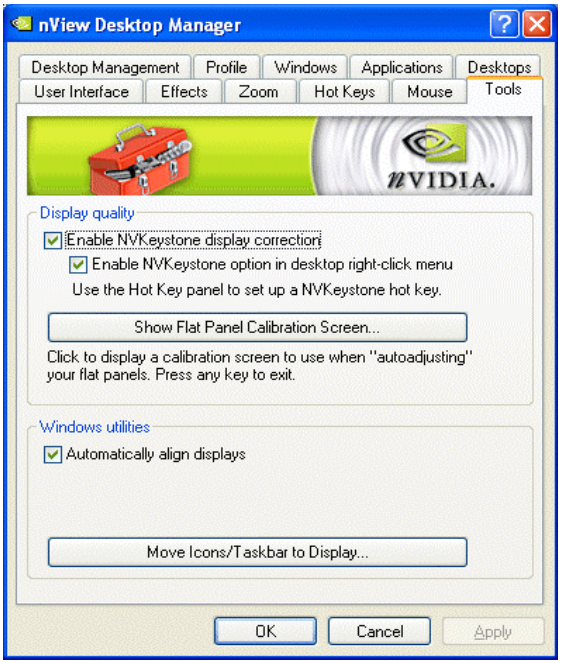

## About Tools Options

The nView Desktop Manager Tools panel offers several miscellaneous tools that can help you be more productive. Included features are NVKeystone to correct for display keystoning, a flat panel calibration screen used to optimize the calibration of your analog flat panels, and several windows utilities that can automatically correct for improper display settings when they occur.

## Accessing the Tools Tab

1. If you need help accessing the nView Desktop Manager control panel, see "Accessing and Enabling the nView Desktop Manager Control Panel" on page 59.
2. Click the **Tools** tab or menu option to display the nView Desktop Manager **Tools** panel (Figure 14.1).

**Figure 14.1** Tools Panel




# Display Quality: NVKeystone

The NVKeystone options in the **Display Quality** section (Figure 14.1) lets you place your 2D windows desktop onto a 3D surface, which you can then manipulate to compensate for image distortion caused by poor alignment of projection screens.

NVKeystone is an anti-keystoning tool that allows you to map your entire windows desktop onto a 3D surface and then manipulate and "warp" the surface to compensate for distortion effects of any surface on which you are displaying.

Because NVKeystone is a 3D application that operates on the entire desktop, it takes a great amount of bandwidth to operate. You may notice that your display is sluggish or that 3D games run very slowly when NVKeystone is active.

It is recommended that you disable NVKeystone when you are playing games or using a 3D program.

## Enable NVKeystone Display Correction

Click this check box to enable or disable the anti-keystone feature.

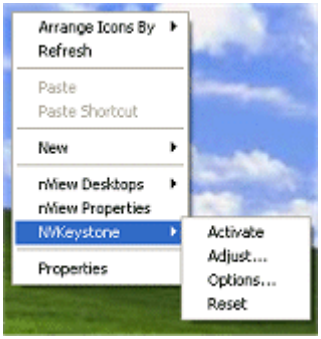
**Note:** If this option is disabled, NVKeystone menus and hot keys will not work.

## Enable NVKeystone Option in Desktop Menu

Click this check box to place a NVKeystone option in the desktop right-click menu (Figure 14.2) for easy access to NVKeystone.

**Note:** If you do not enable this option, the NVKeystone option will not be placed in the desktop right-click menu. In this case, the only way to turn NVKeystone on/off is by using a Hot Key assignment.

**Figure 14.2** NVKeystone Option in Windows Desktop Properties Menu




## Accessing NVKeystone

You can access NVKeystone using one of two methods:

- From the desktop, right-click to access the Properties menu (must enable the option in tools) as shown in Figure 14.2 *or*
- Use a hot key assignment

This section will focus on accessing NVKeystone from the Desktop properties menu.

**Note:** Using the Hot Key method is similar to the Desktop Properties method but only the Hot Key method can rotate between three different modes – **Off**, **On**, and **Adjust**.

## NVKeystone Menu

The NVKeystone menu (Figure 14.2) contains four options – Activate, Adjust, Options, and Reset.

- **Activate** turns NVKeystone *on* and *off*.

- **Adjust** displays the NVKeystone Adjustment Screen. See NVKeystone Adjustment Screen in the next section for details.
- **Options** displays the NVKeystone Options dialog box. See "NVKeystone Options" on page 169 for details.
- **Reset** resets NVKeystone to its default settings; that is, warping is disabled.

## NVKeystone Adjustment Screen

The "Adjustment Screen" (Figure 14.3) lets you adjust the warping of the display.

You can grab each of the red "hot spots" on the screen with the mouse and then drag it to warp the display. In addition, you can use your arrow keys to perform fine adjustments of the corner that you are currently grabbing with your mouse.

**Note:** Four options are available within the Adjustment Screen: **OK**, **Cancel**, **Reset** and **Options**.

- **OK** lets you exit the Adjustment Screen after automatically saving the adjustments you have made.
- **Cancel** lets you exit the Adjustment Screen and discards any adjustments you have made. Note that your screen then reverts to its state before you opened the Adjustment Screen.
- **Reset** resets your screen to *default* settings; i.e., no warping of the display.
- **Options** displays the NVKeystone Options dialog box. See "NVKeystone Options" on page 169 for details.

## NVKeystone Options

From your desktop, right click your mouse to display the properties menu, then click **NVKeystone** > **Options** to display the NVKeystone options menu. The following options can be set:

- **Enable video overlay while NVKeystone is running** allows video to play back correctly when NVKeystone is active.

  **Note:** It is recommended that this option remain enabled (checked).

- **Automatically turn NVKeystone off if disabled for more than 30 seconds** automatically turns *off* NVKeystone and unloads it from memory if it is unused for more than 30 seconds.

  When NVKeystone is not active (i.e., the "Activate" option is not checked in the NVKeystone menu), NVKeystone is still present in your computer's

memory, however. This allows you to quickly turn on NVKeystone again, if needed.

**Figure 14.3** NVKeystone Adjustment Screen

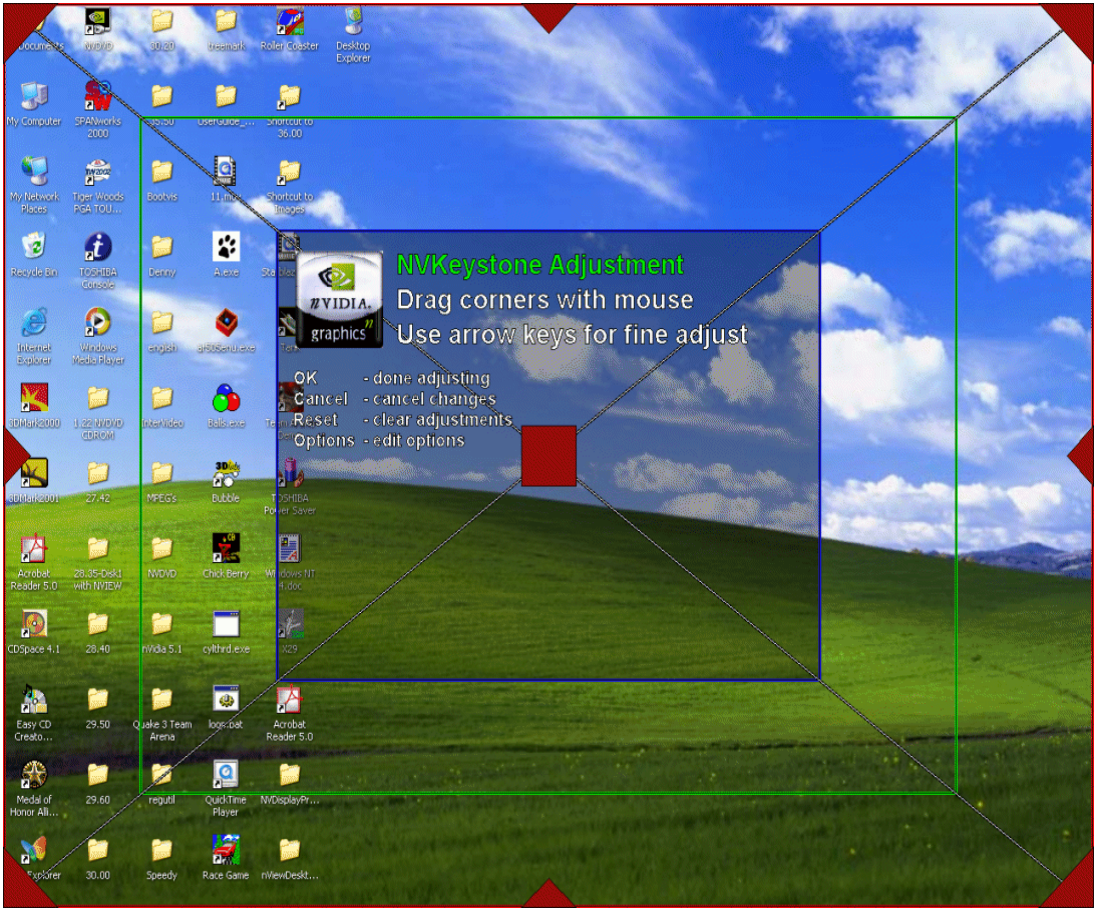



**Figure 14.4** NVKeystone Options

- **Enable NVKeystone display filtering** enables or disables antialiased filtering of the NVKeystone image.
- **Use sticky mouse clicks when editing** turns on "sticky" mouse clicks for the NVKeystone Adjustment Screen.

  **Note:** "Sticky" mouse click means that you can click once to grab a corner of the Adjustment Screen and then click again to release a corner instead of having to hold down the mouse button.
- **Apply NVKeystone to display** …lets you to change the display device on which NVKeystone appears.

  **Note:** If you are running in nView Span or Clone mode, both displays will have NVKeystone applied. However, if you are running in Dualview mod, you will have the option to choose a display for NVKeystone.
- **Change NVKeystone modes with…** lets you change or assign a hot key to toggle the keystone mode between *off*, *on*, and *adjust*.

  **Note:** You can perform the same hot key assignment from the Desktop Properties Hot Keys tab. See "Using Hot Keys" on page 150.

# Display Quality: Show Flat Panel Calibration Screen

This option (Figure 14.1), when clicked, displays a calibration screen on every monitor on the desktop. This calibration screen has been designed to optimize calibration of analog flat panels when using auto-calibrate (or auto-sync) features available on most flat panels.

**Note:** This calibration screen is not needed if you use analog monitors (CRTs).

To use this option, follow these steps:

1. Click the **Show Flat Panel Calibration Screen**. Each monitor will now display the nView calibration screen.
2. For each analog flat panel, select its auto-calibrate or auto-sync function.

   **Note:** This function varies for each flat panel manufacturer.
3. After auto-syncing each flat panel, press any key to close the flat panel calibration screens.

Your panels should now be calibrated to their optimum settings.

CHAPTER 15

# MANAGING APPLICATIONS: FOR ADVANCED USERS

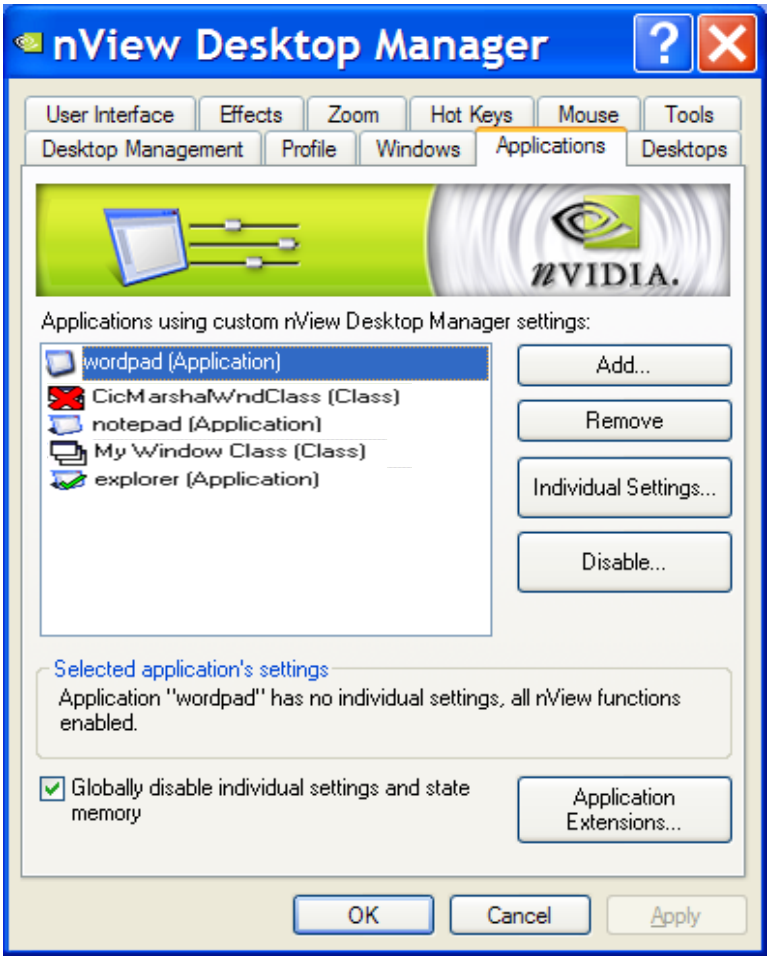
This chapter contains the following major sections:


- "Accessing the Applications Panel" on page 172
- "About the Applications Panel" on page 173
- "Adding an Application" on page 175
- "Removing an Application" on page 176
- "Disabling an nView Desktop Manager Function" on page 179
- "Individual Settings" on page 179
- "Launch Settings" on page 180


## Accessing the Applications Panel

1. If you need help accessing the nView Desktop Manager control panel, see "Accessing and Enabling the nView Desktop Manager Control Panel" on page 59.
2. Click the **Applications** tab or menu option to display the nView Desktop Manager **Applications** panel (Figure 15.2).

**Figure 15.1** Applications Panel




# About the Applications Panel

nView Desktop Manager can be customized to function differently for each application. You can set up some applications to maximize to the full desktop while you can set up others to maximize to a single display.

You can also configure how an application launches. For example, you can choose a Windows application such as Calculator to always launch transparently while have Internet Explorer always launch on a specific desktop.

The nView Desktop Manager Applications panel provides a central spot where you can set up and edit these individual application settings. The Applications panel also allows you to disable nView Desktop Manager functions for each

application. While NVIDIA tests hundreds of applications for compatibility, there may be certain third-party applications that are not compatible with certain features, such as Transparency or the nView Desktop Manager menu options. Using the Applications panel, you can disable these features for applications that are not compatible with these features.

In addition to distinguishing between different applications, nView Desktop Manager can also distinguish between different Window Classes.

The **Applications** panel (Figure 15.1) displays a list of all applications and window classes that are set up for **Individual Settings** and/or have nView Desktop Manager functions disabled. Each line in the list box contains a few elements. The name of the application or class is listed along with an icon to the left.

- If there is a green check mark on the icon, this means the application has **Individual Settings**.
- If there is a yellow **!** on the icon, this means that some nView Desktop Manager functions are disabled.
- If there is a bold red **X** on the icon, this means that all nView Desktop Manager functions are disabled for that application or class.

For example, the list in Figure 15.1shows the following:

- The **CicMarshalWndClass** has all nView functions disabled.
- The **Notepad** application has no special settings.
- The **Regedit** application has some nView functions disabled.
- **My Window Class** has no special settings.
- The **Explorer** application has Individual Settings.

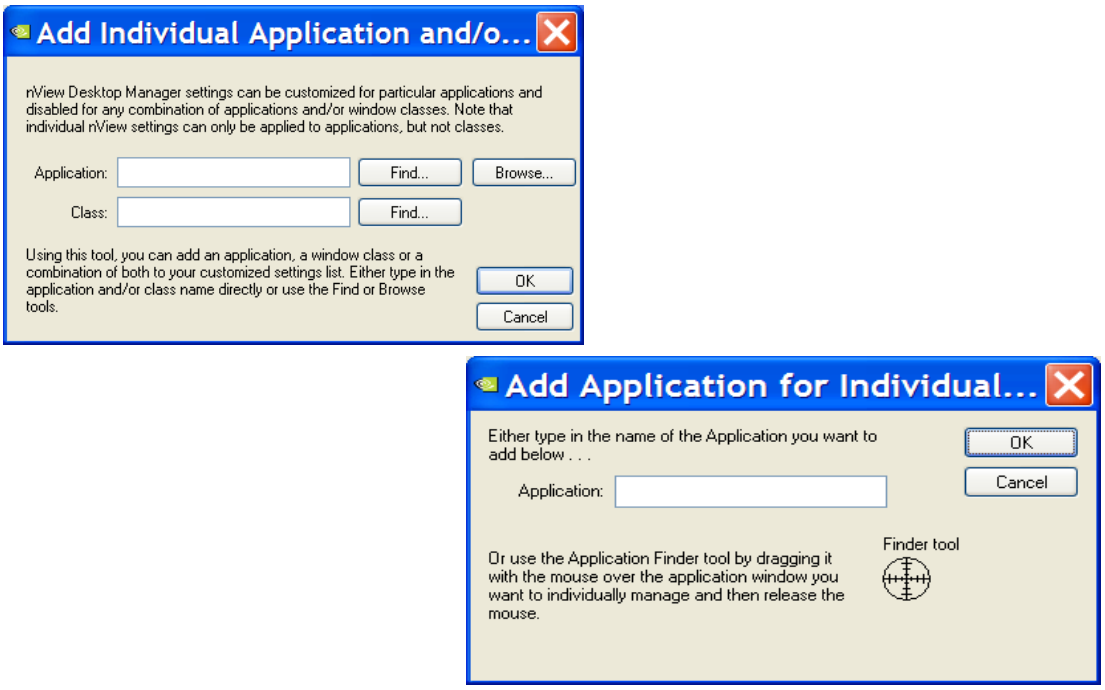
**Note:** When you add a class or an application to the list box, you still have not set any special settings for it. In this case, the icon (for the class or application) will be blank as in the Notepad application or My Window Class as shown in Figure 15.1. If you close the Applications panel now and reopen, these two list elements will be removed because they had no special settings applied to them.

**Note:** Below the list box, in the **Selected application's settings** box, a text description of the selected item in the list is also provided. For the "Wordpad" application example, the text box correctly states that wordpad has no Individual Settings but that some nView Desktop Manager functions are disabled for it.

# Adding an Application

1 To add an application, click **Add** to display a dialog box (Figure 15.2) where you can use the **Find** or **Browse** option to locate an application to add to the list box.

**Figure 15.2** Add Application Dialog Boxes (1)




2 If you want to use the Browse option, click **Browse** and locate the application executable file you want to add. Then click **Open**

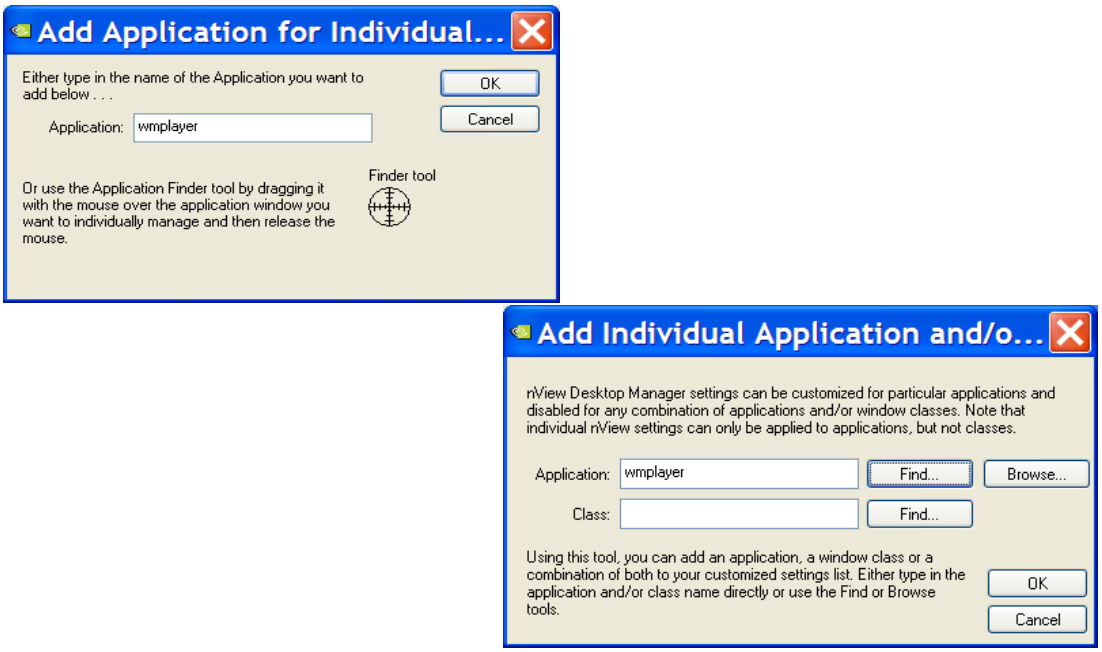
3 If you want to use the **Find** option, make sure that the application you want to add is open on your desktop. When you click the **Find** option, another dialog box (shown in Figure 15.2) appears.

4 Click and drag the circular **Finder tool** option to the title bar of the open application you want to add. Then, release the mouse button.

The name of the application appears in the **Application** field (Figure 15.2).

5 Click **OK**.

**Figure 15.3** Add Application Dialog Boxes (2)




# Removing an Application

The **Remove** buttons removes the application or class from the list and also deletes any Individual Application Settings (IAS) or disabled function information for the application or class.

At the bottom of the Application tab there is a setting called "**Globally disable individual settings and state memory**". When checked, this option disables all nView individual application settings throughout the system for all windows.

# About Windows Classes

In rare cases, some applications may be written in such as way that either its main window or, more commonly, their child windows do not support an nView Desktop Manager feature (such as transparency) or else they do not support a user making changes to their size and/or position. In these cases, you can disable nView Desktop Manager functions only for the particular window(s) that may have support issues.

A **class** is simply a type of window. Often, window classes are unique to an application. For example, in nView Desktop Manager, several Window Classes

are used; for example, a class called "Zoom1" for the Zoom window, a class called "Child1" for the little white square inside the Zoom window, and so on.

In addition to classes that are unique to an application, there are certain global classes of windows that are used by every application. An example is a dialog box that is a global class (the name is #32768 – class names are not always intuitive).

**Note:** Using class names, however, allows you to more precisely target windows for which you want to disable features.

For example, the Zoom1 window class can be set up not to support the transparency feature. Therefore, there is no need to turn off transparency for all nView Desktop Manager windows. Also, if another application uses the Zoom1 window class, the transparency rule will still operate.

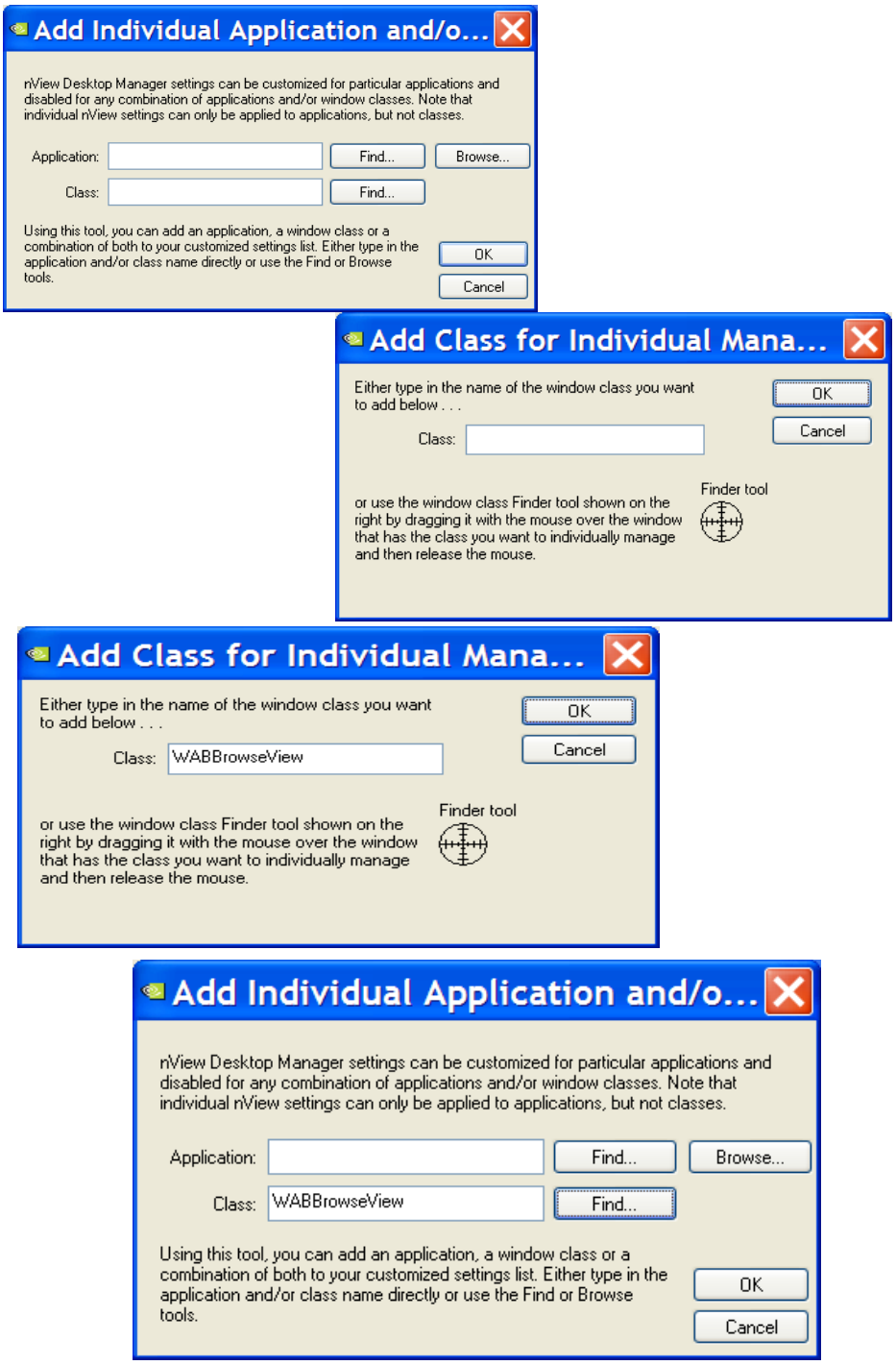
When a class is selected in the list, the **Individual Settings** option is disabled. Classes cannot have Individual Settings *enabled*; they can only have nView Desktop Manager functions *disabled*.

# Adding a Window Class

1. To add a class, click **Add** to display a dialog box (Figure 15.3) where you can use the **Find** option to locate a window class to add to the list box.
2. Before you use the **Find** option, make sure that the application window (main or child window) for which you want to add class information is open on your desktop. When you click the **Find** option, another dialog box (shown in Figure 15.4) appears.
3. Click and drag the circular **Finder tool** option to the title bar of the open application for which you want to add class information. Then, release the mouse button.

   The class name appears in the **Class** field (Figure 15.4).
4. Click **OK** to return to the Applications panel where you will now see the class listed.

**Figure 15.4** Add Class Dialog Boxes (1)



# Disabling an nView Desktop Manager Function

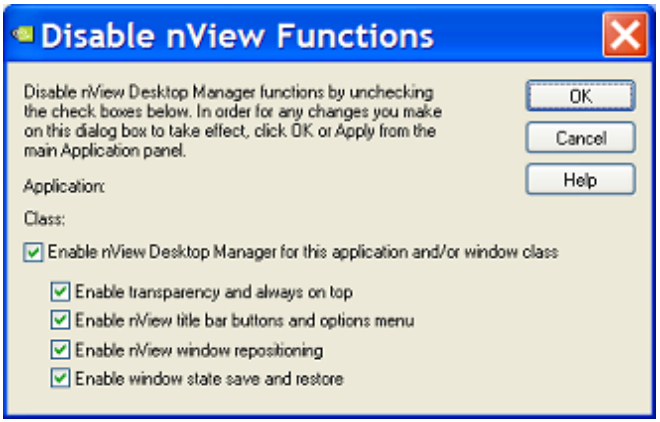
To disable an nView Desktop Manager function, follow these steps:

1 From the Application panel, select the application or class for which you want to disable a function.

**Note:** If the application or class for which you want to disable the function does not appear in the list box, add it using the **Add** option.

2 Click the **Disable**, option to display the Disable nView Functions dialog box (Figure 15.5).

**Figure 15.5** Disable nView Desktop Manager Functions




By default, all functions are enabled. You can chose to disable all functions (Enable nView Desktop Management) or just a subset of functions from the group of check boxes.

3 Click **OK** when you have finished selecting functions to disable.

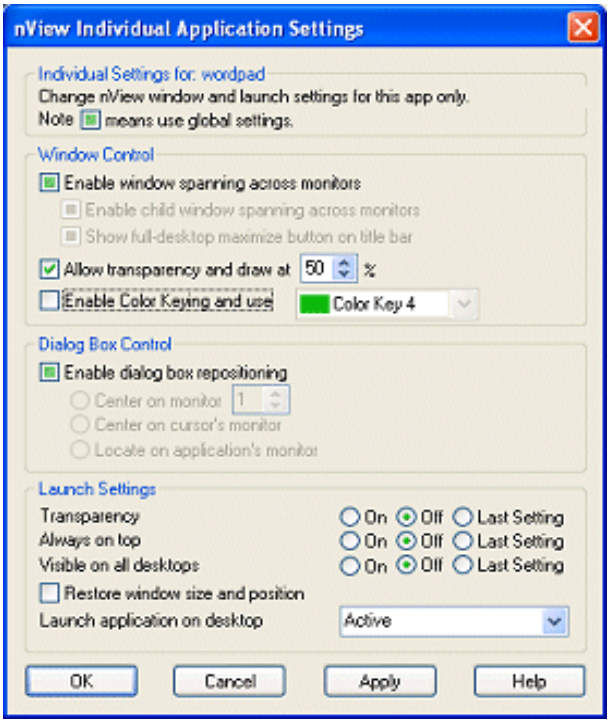
# Individual Settings

To set up individual application settings for an application, click **Individual Settings** from the Applications panel.

**Note:** You can also set up individual application settings using the nView options menu. To edit individual settings for an application, select **Individual Settings** > **Edit** on an application's nView option menu.

When you select to set up **Individual Settings** for an application, the **Individual Application Settings** dialog box appears (Figure 15.6).

**Figure 15.6** Individual Application Settings




From this dialog box, you can set up both individual window settings as well as launch settings for the application.

The first box icon contains a “global” marker, which means that the application uses the standard nView Desktop Manager settings for the feature. This marker may be a check mark, solid colored square (as shown in the example in Figure 15.6) or other indicator, depending on the application.

The **Allow transparency and draw at n%** option is simply an *on/off* setting that either enables or disables transparency for the application and sets an individual transparency level to be used for the application during transparent operations.

## Launch Settings

Launch settings are only applied when an application is first started.

- The **Transparency**, **Always on top**, and **Visible on all desktops** can have one of three settings:
  - **On** means the setting will always be turned on when the application starts.

  - **Off** means the setting will always be turned off when the application starts.
  - **Last Setting** means that when the application is closed, the setting will be saved and then restored when the application is opened again. In other words, the setting will be remembered.
- **Restore window size and position**, when checked, will cause nView Desktop Manager to store the application window's size and position when it is closed and then restore the application to the same size and position when opened again.
- **Launch application on desktop** lets you to set up a specific desktop to launch the application on. You can select a specific desktop on which to always launch the application from the drop down list. Two choices are always listed: **Active** and **Last**.
  - If the **Active** desktop is chosen (default), the application will launch on your currently active desktop regardless of the desktop you are on.
  - If the **Last** desktop is chosen, the desktop on which the application was located when it was closed will be remembered and, when the application is relaunched, it will open on that stored desktop (the last desktop it was closed on).

**Note:** If an application is set to open up on a desktop different than your current desktop, when you launch that application, you will be automatically taken to the desktop on which the application launches.

# Application Extensions

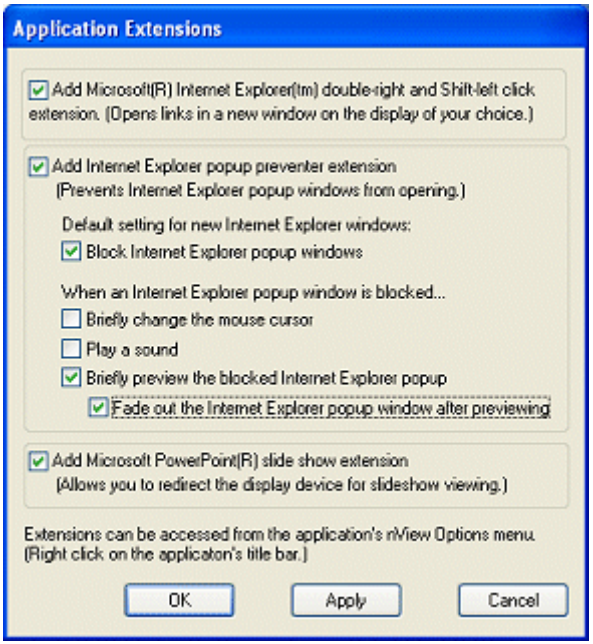
If you want to add Internet Explorer-specific and PowerPoint-specific application extensions, click **Application Extensions** from the Applications panel.

The **Application Extensions** dialog box appears (Figure 15.7).

## Internet Explorer Options

**Note:** You must have Internet Explorer 6.0 (at minimum) installed on your desktop to access the nView Desktop Manager-based Internet Explorer options on the Application Extensions dialog box (Figure 15.7) explained in this section.

**Figure 15.7** Application Extensions Dialog Box

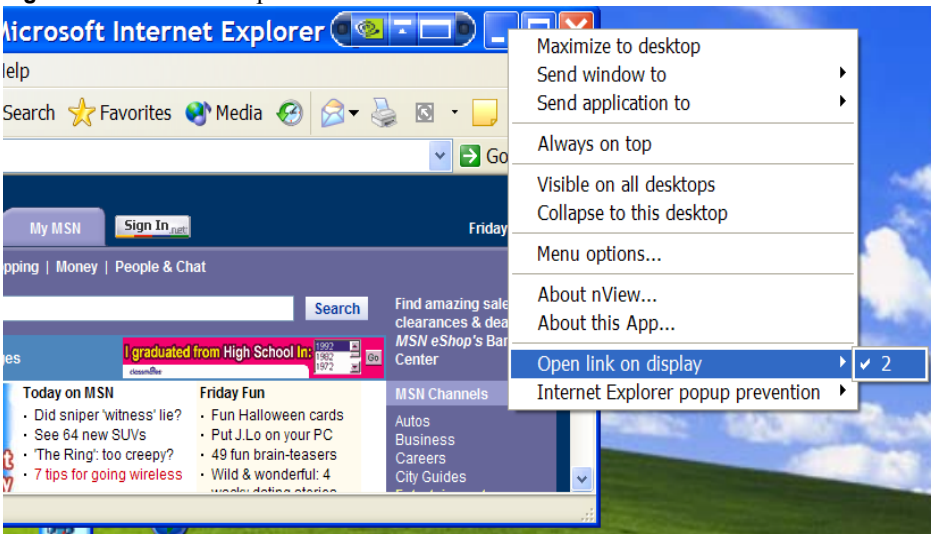



## Add Microsoft Internet Explorer Double Right-click and Shift-left-click Extensions

**nView Options** adds a new menu item called **Open link on display *n*** (Figure 15.8) on the Internet Explorer 6.0 browser, where *n* represents your display device. For example, "1" is the only choice when only one display device is attached; 1 and 2 are choices when two display devices are attached; 1, 2, and 3 are choices when three display devices are attached, and so on.

**Note:** Once you set this option on a primary Internet Explorer window, as shown in the example in Figure 15.8, when you **Shift-Left click** or **double right-click** any link from this primary window, the browser window for that link opens on the display device you selected with the "Open link on monitor" option.

**Figure 15.8** Internet Explorer Extensions




## Add Microsoft Internet Explorer Popup Preventer Extensions

nView Options adds a new menu item called **Internet Explorer popup prevention** (Figure 15.9).

If you want to set the Internet Explorer pop-up preventer extensions for the current instance of your Internet Explorer window, follow these steps:

1. Enable the Internet Explorer popup preventer extension options on the Applications Extensions dialog box (Figure 15.7).

   These settings will now apply to any session of Internet Explorer on your desktop.

2. If you want to apply settings to the *current session of Internet Explorer* while the window remains open, follow these steps:

   a. From the IE window, click the title bar to access the *nView option*s menu (i.e, nView options must be enabled to do this).

   b. Click **Internet Explorer popup prevention** and click **Enable** to check (enable) this option (Figure 15.9).

   c. Again, from the IE window, click the title bar to access the *nView option*s menu (i.e, nView options must be enabled to do this).

   d. Click **Internet Explorer popup prevention** and click **Edit** to open the Internet Popup Window dialog box.

   e. Enable the settings you want and click **Apply**.

**Figure 15.9** Internet Explorer Popup Preventer

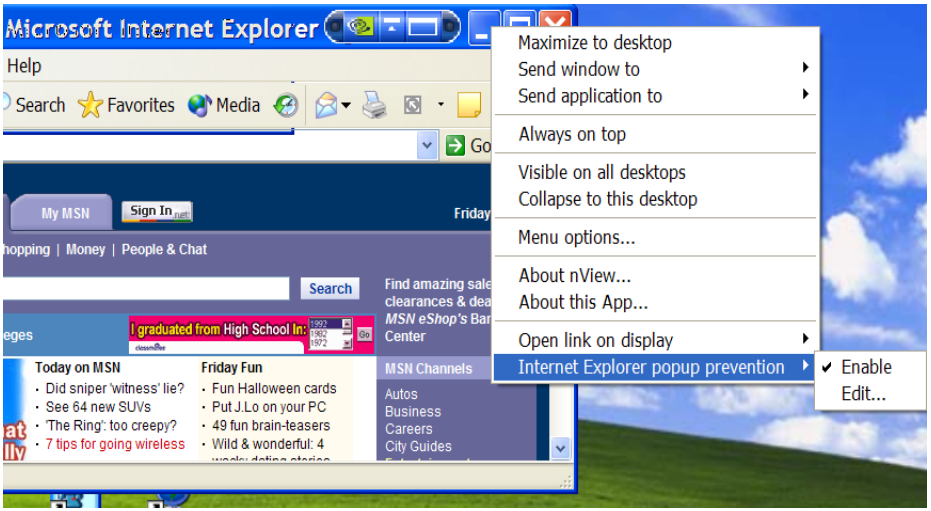
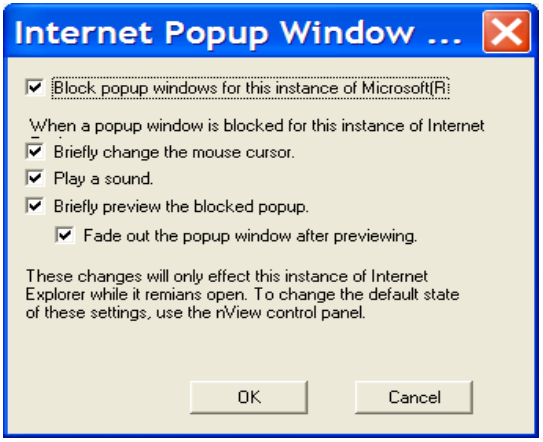



**Figure 15.10** Internet Explorer Dialog Box




## Add Microsoft PowerPoint Slide Show Extension

When you enable this option on the Application Extensions Dialog Box, the nView Desktop Manager options menu adds a new menu item "**Show slide show on display *n***" on Microsoft PowerPoint 2000 and PowerPoint 2002, where *n* represents the display device.

**Note:** Once you select a display on which to show slides, future slide shows started from Microsoft PowerPoint will be shown on that display.