



nView Desktop Manager

User's Guide

Driver Release 177 for Windows
NVIDIA Corporation
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CHAPTER

1

INTRODUCTION

The following major topics are discussed in this chapter:

- “About this Guide” on page 13
- “About nView Desktop Manager” on page 14
- “Why Do I Need Desktop Management?” on page 15
- “Current Enhancements” on page 16
- “Features and Benefits” on page 16
- “Application Compatibility” on page 23
- “Notes on Feature and Configuration Support” on page 25
- “Examples in this Guide” on page 27

About this Guide

This *user's guide* is intended for end users of the NVIDIA® nView™ Desktop Manager application, which is a component of the NVIDIA ForceWare™ graphics driver. 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: For technical details on supported NVIDIA products and the features of the NVIDIA ForceWare graphics driver, refer to the NVIDIA Web page: www.nvidia.com.

Other Related Documentation

- *NVIDIA Control Panel —Quick Start Guide (Driver Release 160)*

Addressed to users of the NVIDIA® Control Panel software, this quick start guide focuses on getting you up and running with your NVIDIA software. For technical details on the features and benefits of the NVIDIA Control Panel software and details about supported products, drivers, and other software, refer to the NVIDIA Web site — www.nvidia.com.

- *NVIDIA ForceWare Graphics Driver: Release 160 Notes*

This document describes performance improvements and software 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.

About nView Desktop Manager

nView Desktop Manager is a user-level application 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 multi-display configurations running with single-display, multi-display, or multiple graphics cards based on NVIDIA GPUs.

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.

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.

Current Enhancements

OpenGL

Note: OpenGL release notes are periodically posted on the NVIDIA developer Web site: http://developer.nvidia.com/object/nv_ogl2_support.html.

- OpenGL 2.1 and OpenGL Shading Language version 1.20 are now supported.
- OpenGL Shading Language shaders that use the "#version 110" or "#version 120" directive now strictly adhere to the OpenGL Shading Language specification.

As a consequence, existing OpenGL Shading Language shaders that use the "#version 110" directive may fail to compile if they use language constructs that are invalid according to the OpenGL Shading Language specification. *This is true even if the shaders did compile using earlier NVIDIA driver releases.* Existing OpenGL Shading Language shaders that do not use the "#version 110" directive are not affected.

- The following extensions have been added:
 - GL_EXT_framebuffer_blit
 - GL_EXT_framebuffer_multisample
 - GL_NV_framebuffer_multisample_coverage
 - WGL_NV_gpu_affinity (NVIDIA Quadro only)

All of the NVIDIA OpenGL extensions can be found on the NVIDIA developer Web site:

http://developer.nvidia.com/object/nvidia_opengl_specs.html

For details on using this feature, see “Managing Applications: For Advanced Users” on page 195.

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 and will be noted as such, where applicable in this guide.

Desktop-Management Features

When you first launch nView Desktop Manager, the Desktop Management page appears and 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 page

Window-Management Features

The window-management features are available on the **Windows** page of nView Desktop Manager control panel.

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 73](#).

Desktops Features

Using the **Desktops** page of the nView Desktop Manager control panel, you can perform the following tasks:

- 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
- Manage your desktop in several ways to suite your style. You can access and, therefore, switch between desktops using various methods, including:
 - **Hot keys**
 - Right clicking on a desktop
 - **Desktop Explorer** — a folder tree in Windows Explorer
 - Menu options from an **NVIDIA Settings icon** on your Windows taskbar
 - A desktop **nView toolbar** (enabled from the **User Interface** page) that can be floated or docked to your Windows taskbar
 - **nView task switcher** (enabled from the **User Interface** page)

For complete details on using Desktops Management features, see [“Managing Desktops” on page 80](#).

Application Management

The application management functionality of nView Desktop Manager is available from the Applications page. You can use the options on the **Applications** page 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 6.0 have additional nView menu options allowing you to be more productive with the application.

Profiles Features

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

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 NVIDIA Release 50 driver, under NVIDIA Quadro-based graphics cards, profiles can also save and load more than eight open application states. This number is limited to eight under NVIDIA non-Quadro-based graphics cards.

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 ForceWare graphics driver and display 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-based graphics cards)
- 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 60](#)

User Interface Features

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 Settings” on page 106](#).

Tools Features

For details on using the Tools features, see [“Using Tools Options” on page 188](#).

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 page 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.

Zoom Features

The Zoom page 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:

- Ability to configure a QuickZoom hot key. For details, see [“QuickZoom Hot Key” on page 169](#).
- 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, see [“Using Zoom Options” on page 153](#).

Hot Keys and Effects Features

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

- Ability to configure a QuickZoom hot key. For details, see [“QuickZoom Hot Key” on page 169](#).
- 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 153](#)
- [“Using Effects” on page 147](#)
- [“Using Hot Keys” on page 171](#).

Mouse Features

The **Mouse** page of the nView Desktop Manager control panel 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 Manager 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 Settings” on page 106](#).

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 [“Adding Title Bar Buttons” on page 128](#)) 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 [“Adding “nView Options” to Application System Menus” on page 134](#).

Notes on Feature and Configuration Support

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 *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 nView Desktop Manager control panel may vary depending on the specific NVIDIA GPU-based graphics cards you are using. For example, one or more options that are available for a specific GPU-based card, such as a GeForce FX, may not be available on a GeForce4, and so on.

Multi-Display Configuration: Tips and Requirements

Note: You can configure NVIDIA multi-display modes from the NVIDIA Control Panel.

- When running Windows XP or Windows 2000 with more than two active displays, setting the “Dualview” NVIDIA display 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 ForceWare graphics driver (version) *must* be installed for each card.

Feature Support for Multi-Display Modes

Table 1.1 Multi-Display Mode and Feature Support

Supported Modes and Features	Windows XP	Windows 2000
Is there nView Dualview support (default) for up to nine (9) display devices?	Yes	Yes
Is nView Clone mode supported?	Yes	Yes
Are nView Span (Horizontal/Vertical) modes supported? Note: In Span mode, a maximum of two (2) display devices are supported.	Yes	Yes
Does switching between nView Span/Clone mode and nView Dualview mode require restarting your computer?	No	Yes
Are all nView Desktop Manager features supported?	Yes	Yes
Hardware Acceleration? DirectX operations are accelerated if window is constrained to a single monitor otherwise operation is redirected to the software. OpenGL support	Yes	Yes

Feature Support — GeForce vs. Quadro FX vs. Quadro NVS Products

Table 1.2 Feature Support — GeForce vs. Quadro FX vs. Quadro NVS Products

Supported Features	GeForce	Quadro FX	Quadro NVS
Virtual desktops supported	32	32	32
NVKeystone	Yes	Yes	Yes
Color-keyed windows	NA	Yes	Yes
Taskbar spanning in Dualview mode/limiting in Span mode	NA	Yes	Yes
Per-monitor desktops including VERN-like UI	NA	Yes	Yes
Applications saved in <i>workspace/application states</i>	8	More than 8	More than 8
Gridlines assignable per display	4	10	10
Maximized window dragging between displays	NA	Yes	Yes
Desktop lock hot key	NA	Yes	Yes

Examples in this Guide

- For example purposes, the nView Desktop Manager control panel pages may show a specific NVIDIA 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 that your graphics card uses on the NVIDIA display menu and on the NVIDIA GPU-named tab that appears from the Windows Display Properties > Settings > Advanced option.
- The Windows XP pages shown in this document apply also to Windows 2000 functionality, *unless noted otherwise*.

SYSTEM REQUIREMENTS AND NVIDIA DRIVER INSTALLATION

This chapter lists the system requirements for installing the NVIDIA ForceWare Release 160 graphics driver and provides installation instructions. It contains the following major sections:

- [“Hardware and Software Support” on page 28](#)
- [“NVIDIA Driver Installation and Uninstallation” on page 30](#)

Hardware and Software Support

- [“Supported Operating Systems” on page 29](#)
- [“Supported NVIDIA Products” on page 29](#)
- [“Supported Languages” on page 29](#)

Supported Operating Systems

This Release 160 driver includes drivers designed for the following Microsoft® operating systems:

- Windows XP Media Center Edition 2005 Update Rollup 2
- Windows XP Media Center Edition 2005
- Windows XP Media Center Edition 2004
- Windows XP Professional
- Windows XP Home Edition
- Windows XP Professional x64 Edition
- Windows Server 2003 x64 Edition

Note: For updated information on Microsoft operating system support, refer to the Release Notes document for the current NVIDIA driver release.

Supported NVIDIA Products

Refer to the Release Notes document and the NVIDIA driver download site (www.nvidia.com) for the list of products supported by the Release 160 driver version that is installed on your computer.

Supported Languages

The Release 160 nView Desktop Manager supports the following languages in the NVIDIA Control Panel:

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

NVIDIA Driver Installation and Uninstallation

- “System Requirements” on page 30
- “Before You Begin” on page 31
- “Uninstalling the NVIDIA Driver” on page 34
- “Installing the NVIDIA Driver” on page 34

System Requirements

NVIDIA Control Panel requires the following minimum system configuration:

- A 600 megahertz (MHz) processor, such as an Intel Pentium III, Advanced Micro Devices (AMD) Athlon, or equivalent processor
- 128 megabytes (MB) of RAM
- The minimum hard disk space requirement for each operating system are listed in [Table 2.1](#), [Table 2.2](#), and [Table 2.3](#):

Table 2.1 Hard Disk Space Requirements—English

Operating System	Minimum Hard Disk Space
Windows XP (32-bit editions)	43.6 MB
Windows XP (64-bit editions)	51.4 MB

Table 2.2 Hard Disk Space Requirements—Non-English Languages

Operating System	Minimum Hard Disk Space
Windows XP (32-bit editions)	25.2 MB
Windows XP (64-bit editions)	20.4 MB

Table 2.3 Hard Disk Space Requirements—Full International Package

Operating System	Minimum Hard Disk Space
Windows XP (32-bit editions)	68.8 MB
Windows XP (64-bit editions)	71.8 MB

To optimize the performance of the NVIDIA Control Panel, the following system requirements are recommended:

- A 1.5 gigahertz (GHz) processor, such as an Intel Pentium 4, an AMD Athlon XP 1500+, or equivalent processor

- 256 megabytes (MB) of RAM
- An Internet connection

Before You Begin

- 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 driver software on your computer.
- The installation process copies all necessary files for operation into the appropriate directories.
- The NVIDIA Control Panel system files and the nView Desktop Manager system files are copied to your **Windows\System** directory.
- nView Desktop Manager Profile files (*.tvp) are saved in the **Windows\Nview** directory.

Depending on the version of the NVIDIA driver previously installed, profiles may also be located in the **Documents and Settings\All Users\Application Data\nView_Profiles** directory.

- As part of the install process, an uninstall is registered in your system.
- Under Windows XP, the NVIDIA driver is installed in “Dualview mode” display. However, note that the second display is not activated by default, but must be enabled.

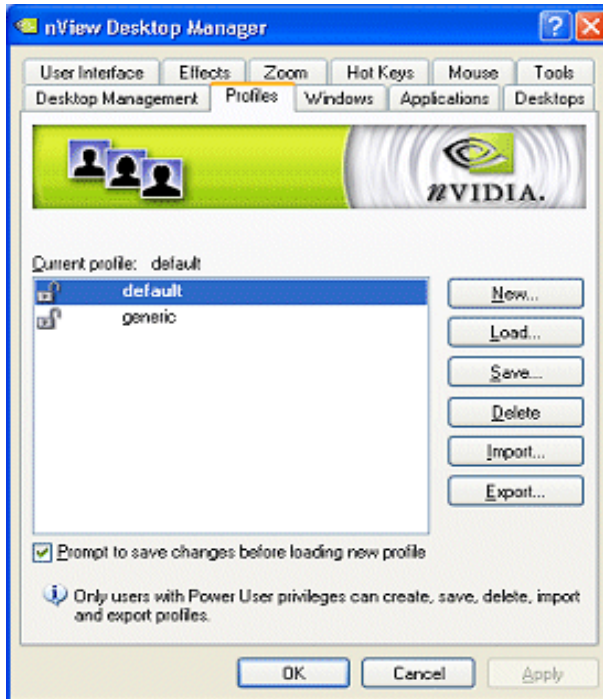
Preserving Settings Before Upgrading Your Software

Before uninstalling or installing software, you can preserve your nView Desktop Manager and/or NVIDIA display settings by using the nView Desktop Manager Profiles features.

- 1 Open the nView Desktop Manager Profiles page ([Figure 2.1](#)).
- 2 To preserve your current settings, you can use either the **Save** or the **New** option from the nView Desktop Manager Profiles page:
 - If you want to overwrite the currently loaded profile with your changed settings, use the **Save** option. Notice that a warning message indicates that you are about to overwrite the selected profile.
 - If you want to retain the currently loaded profile and want to save your changed settings to a new file, click the **New** option. Enter a name and description of the profile in the New Profile dialog box. For example, you can

name this profile **My Settings**.

Figure 2.1 nView Desktop Manager — Sample Profiles Page



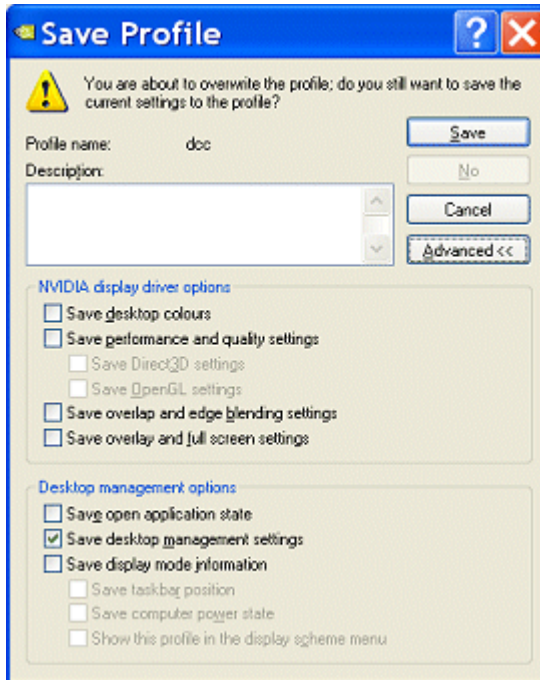
- 3 If you are an “advanced” user and want to customize certain settings in the saved profile, click **Advanced** << to expand the dialog box (Figure 2.2).
- 4 To customize the settings, you can select or clear any of the settings check boxes.
- 5 Click **Save** to return to the main Profiles page.

If you created a new profile, you will see the name of the newly created profile in the profiles list.

If you overwrote a current profile, the same profile name is retained in the list.

Note: nView Desktop Manager profile (.tvp) files are saved in the **Windows\nView** directory. Depending on the version of the NVIDIA driver previously installed, profiles may also be saved in the **Documents and Settings\All Users\Application Data\ nView_Profiles** directory

Figure 2.2 nView Desktop Manager — Save Profile Settings



- 6 Now you can uninstall your current driver for a driver upgrade.
- 7 After you restart your computer following an NVIDIA new driver install, you can easily load the saved profile from the Profiles page of nView Desktop Manager.

About Using Saved Profiles in Another Computer

You can easily use any saved profile (.tvp file in the **Windows\nView** directory) from one computer and use it in another computer, if you want. You'll need to copy it to the **Windows\nView** directory of a computer that has the NVIDIA ForceWare graphics driver, etc. installed properly. Then this profile can be loaded from another computer from the nView Desktop Manager Profiles page just as it can from your original computer.

Uninstalling the NVIDIA Driver

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

To uninstall the nView software, follow these steps:

- 1 From the Windows taskbar, click **Start > Settings > Control Panel** to open the Control Panel window.
- 2 Double-click the **Add/Remove Programs** item.
- 3 Click the **NVIDIA Display Driver** item 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 files are saved in the **Windows\nView** directory on your hard disk.

Your system now restarts.

Installing the NVIDIA Driver

- 1 Follow the instructions on the NVIDIA.com Web site driver download page to locate the appropriate driver to download, based on your hardware and operating system.
- 2 Click the driver download link.
The license agreement dialog box appears.
- 3 Click **Accept** if you accept the terms of the agreement, then either open the file or save the file to your PC and open it later.
Opening the EXE file launches the NVIDIA InstallShield Wizard.
- 4 Follow the instructions in the NVIDIA InstallShield Wizard to complete the installation.

CHAPTER

3

NVIDIA CONTROL PANEL ACCESS

This chapter contains the following major topics:

- “NVIDIA Display Setup Wizards” on page 35
- “Accessing the nView Desktop Manager Control Panel” on page 37
- “Windows Taskbar Method” on page 37
- “The nView Desktop Manager Control Panel” on page 39
- “Using Context Help and Tool Tips” on page 40
- “Troubleshooting” on page 41

NVIDIA Display Setup Wizards

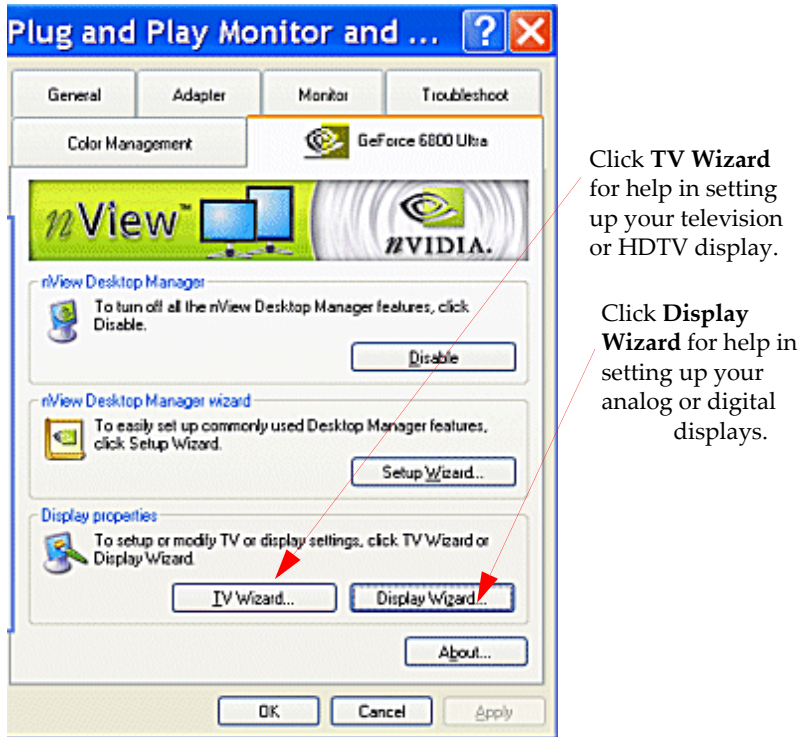
After a fresh installation of the NVIDIA Release 160 graphics driver and restarting your computer, one or both of the NVIDIA display wizards (**Display Wizard** or **TV Wizard**) are automatically invoked, depending on the types of displays that are connected to your graphics card — i.e., analog or digital display, television, or HDTV. The wizards help set up the most commonly used nView display modes, including screen resolution and output.

On subsequent session using the NVIDIA graphics driver, you can manually start any one of these wizards by clicking either the **Display Wizard** or the **TV Wizard** button from the Desktop Management page ([Figure 3.1](#)).

For details on using the Desktop Manager **Setup Wizard** (Figure 3.1), see “Using the Desktop Manager Setup Wizard” on page 41

To see sample Wizard pages, see Appendix A, “NVIDIA Setup Wizard Pages” on page 210.

Figure 3.1 Manually Starting the NVIDIA Display Wizard



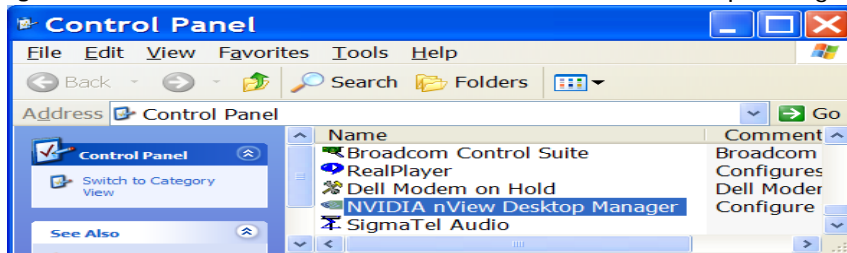
Accessing the nView Desktop Manager Control Panel

Windows Control Panel Access Method

To access the nView Desktop Manager control panel 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 3.2) to display the nView Desktop Manager control panel (Figure 3.5).

Figure 3.2 Windows Control Panel With NVIDIA nView Desktop Manager Program



Windows Taskbar Method

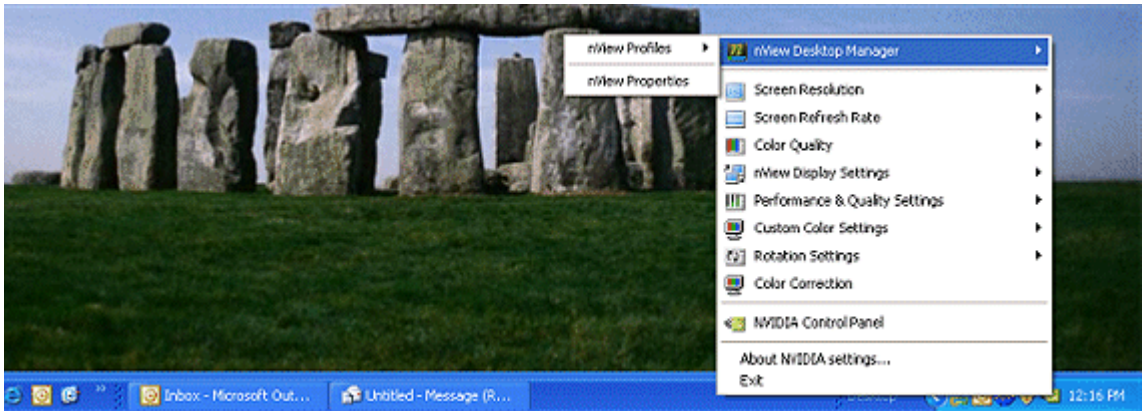
To access the nView Desktop Manager control panel from the Windows taskbar area, follow these steps:

- 1 From your Windows taskbar, click the NVIDIA Settings menu icon (Figure 3.3) to display the menu shown in Figure 3.4.

Figure 3.3 NVIDIA Settings Menu Icon in the Windows Taskbar Notification Area



Figure 3.4 NVIDIA Settings Sample Menu



2 Do either of the following:

- To open the nView Desktop Manager control panel, click **nView Properties** (Figure 3.4) OR
- To quickly access nView profiles, click **nView Profiles** and then the specific profile you want. For details on using profiles, see [“Working With Profiles” on page 60](#).

The nView Desktop Manager Control Panel

When you first open the nView Desktop Manager control panel, it opens on the Desktop Management tabbed page.

To enable all the tabbed pages, click **Enable** (Figure 3.5)

Figure 3.5 nView Desktop Manager Control Panel.

Click **Enable** to enable all of the tabs.

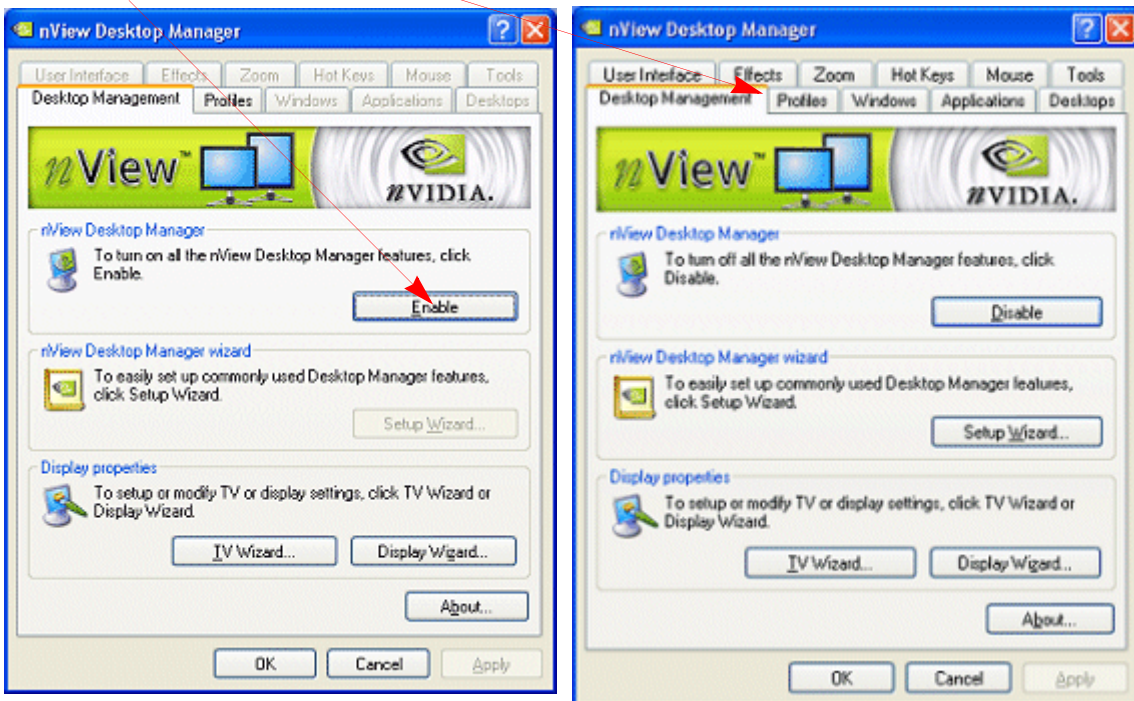
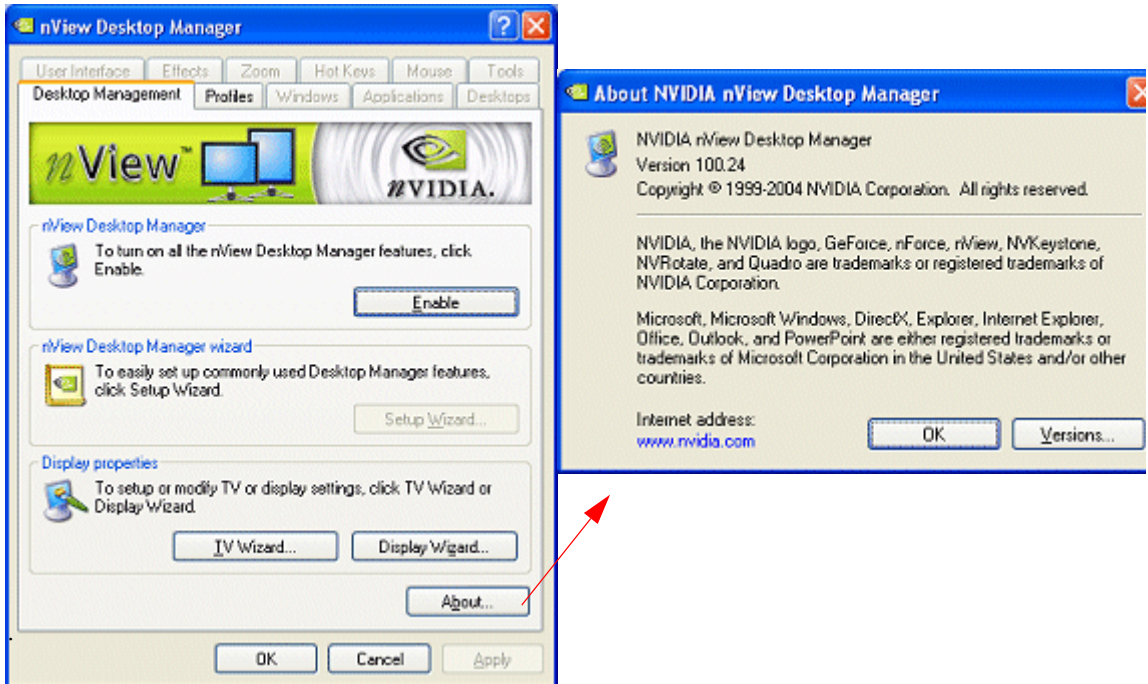


Figure 3.6 Desktop Management Page — nView Desktop Manager Version Information



Using Context Help and Tool Tips

Context Help

You can obtain context Help for any of the settings and options on any of the nView Desktop Manager page by using any *one* of these methods:

- Select or move your mouse pointer to the option or button for which you want help and then press **F1**, or
- Click the “?” icon located on the top right corner of the nView Desktop Manager page you have open, move the “?” icon over the option or button for which you want help, then click your mouse again to display the help.

Tool Tips

Windows-style tool tip (pop-up) Help appears when you hover your mouse pointer on an item that is partially obscured. For example, you can place you mouse on any of the long NVIDIA menu names that may be partially obscured (such as Performance and Quality Settings) and be able to view the name in its entirety.

Tool Tips for Disabled Settings

When an option or setting is disabled (grayed) on any nView Desktop Manager page, you can place the mouse pointer on the disabled option for a couple of seconds to see “tool tip” help describing the reason it is disabled.

Troubleshooting

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

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

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 ForceWare graphics 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 ForceWare graphics driver software according to the instructions in “[Uninstalling the NVIDIA Driver](#)” on page 34 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 ForceWare graphics driver and then re-install a current version.

USING THE DESKTOP MANAGER SETUP WIZARD

This chapter contains the following major sections:

- “About the Wizards” on page 41
- “About Using the Wizards” on page 42
- “Display Wizard: Auto-Launch vs. Manual Launch” on page 43
- “Setup Wizard” on page 53

About the Wizards

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 choose to skip major option groups.

There are two kinds of Wizards: **Display Wizard** and **Setup Wizard**

- The **Display Wizard** helps enable and customize your multi-display setup. See “Display Wizard: Auto-Launch vs. Manual Launch” on page 43 for sample Wizard pages.

- The **Setup Wizard** helps set up nView Desktop Manager features. See “[Setup Wizard](#)” on page 53 for sample Wizard pages.

About Using the Wizards

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 pages that appear, depending on your configuration; i.e., whether you are running Windows Me/9x (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 4.22](#) through [Figure 4.25](#)) will not appear.
- Also note that because *transparency* is not a supported feature under Windows 9x or Windows NT 4.0, the Wizard page containing this option ([Figure 4.27](#)) will not be available under those operating systems.

Display Wizard: Auto-Launch vs. Manual Launch

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 ForceWare graphics driver, the *Wizard starts automatically*.

Use these **Display Wizard** pages to enable and customize your multi-display setup.

- **Auto-launch.** After a *first-time installation* of the NVIDIA ForceWare graphics driver when there are at least two display devices connected to your computer, this Display Wizard will launch automatically.

Note: This Wizard *will not start automatically* if you have only one display device connected to your computer.

- **Manual launch.** On subsequent sessions, to manually launch this Wizard, click **Display Wizard** from the Desktop Management panel.

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

Figure 4.1 Auto-Launch Wizard Welcome Page

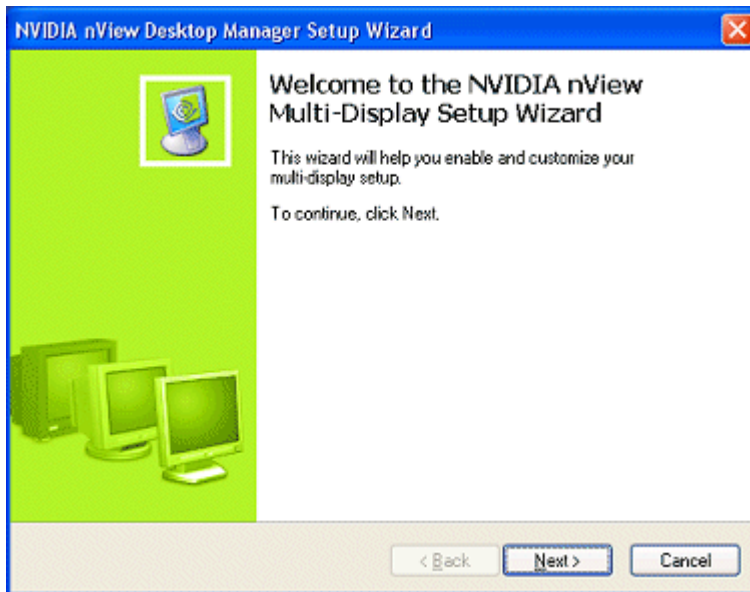


Figure 4.2 Auto-Launch Wizard Setup Option — “Typical Setup” Selected

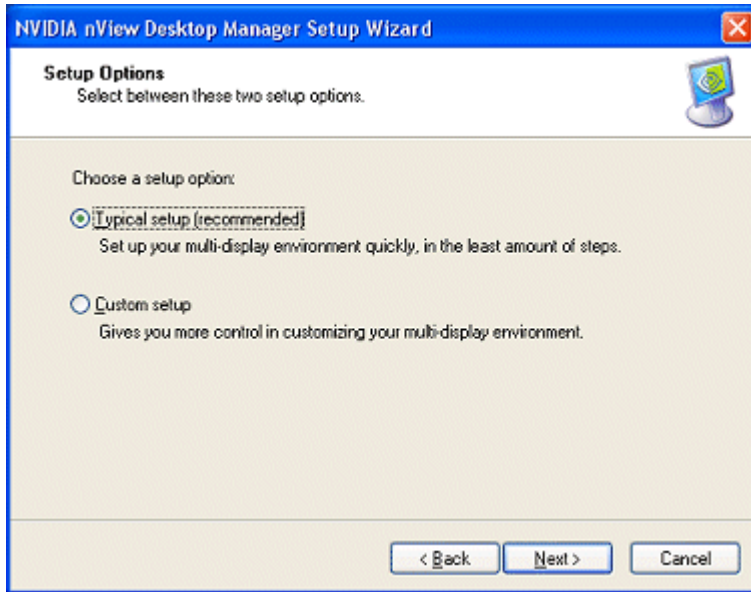


Figure 4.3 Auto-Launch Wizard Setup Option — Display Settings for Typical Setup

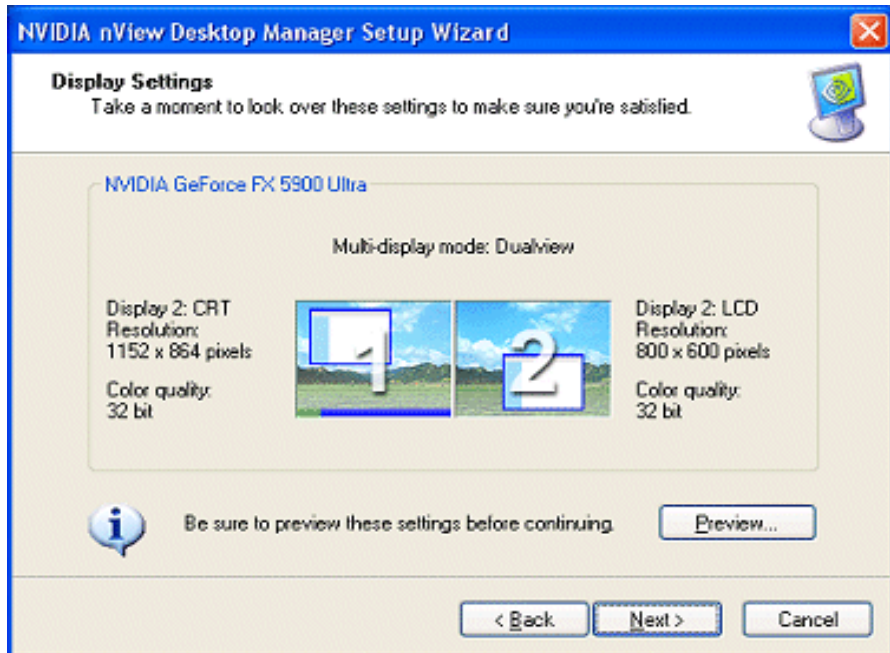


Figure 4.4 Auto-Launch Wizard Setup Options — “Custom Setup” Selected

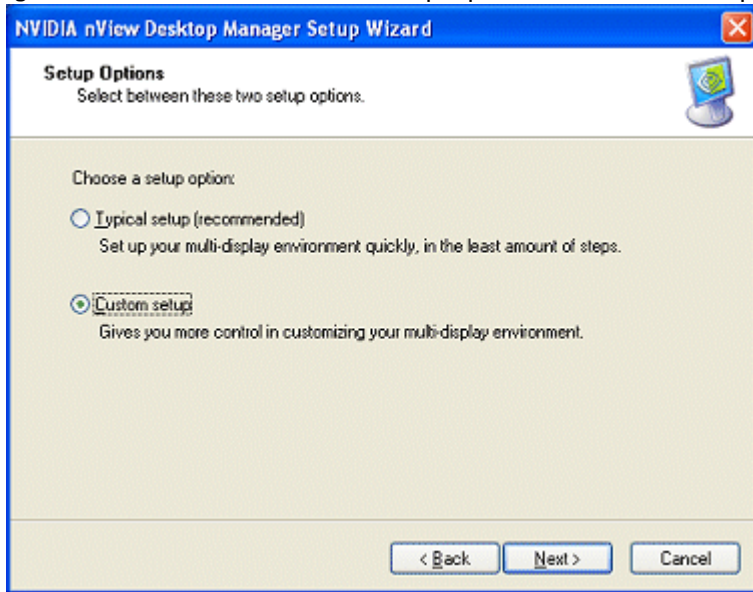


Figure 4.5 Auto-Launch Wizard — Multi-Display Mode Dualview Mode Selected

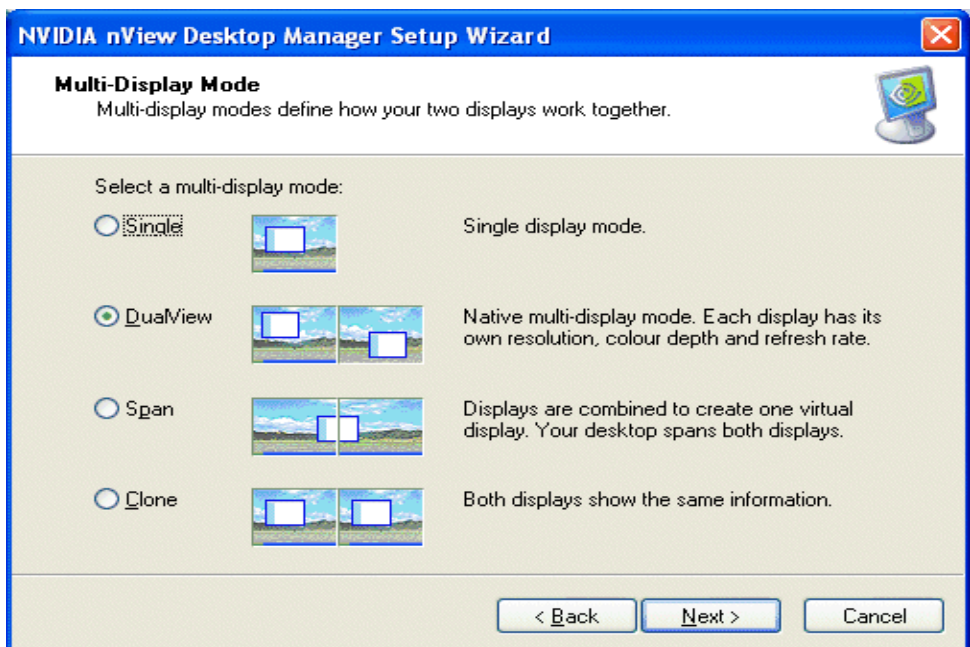


Figure 4.6 Auto-Launch Wizard Settings — Dualview Mode (2 CRT Example)

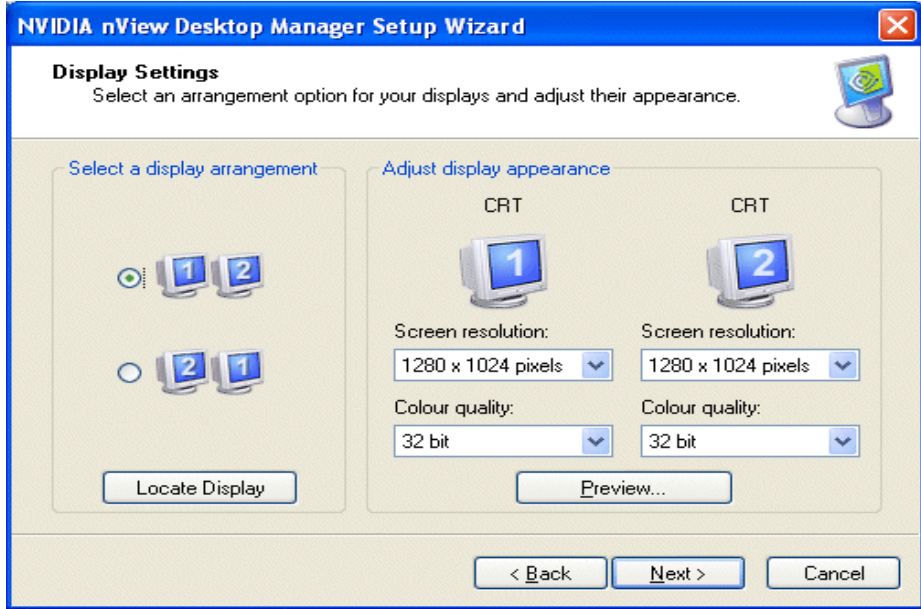


Figure 4.7 Auto-Launch Wizard Multi-Display Mode — Span Mode Selected

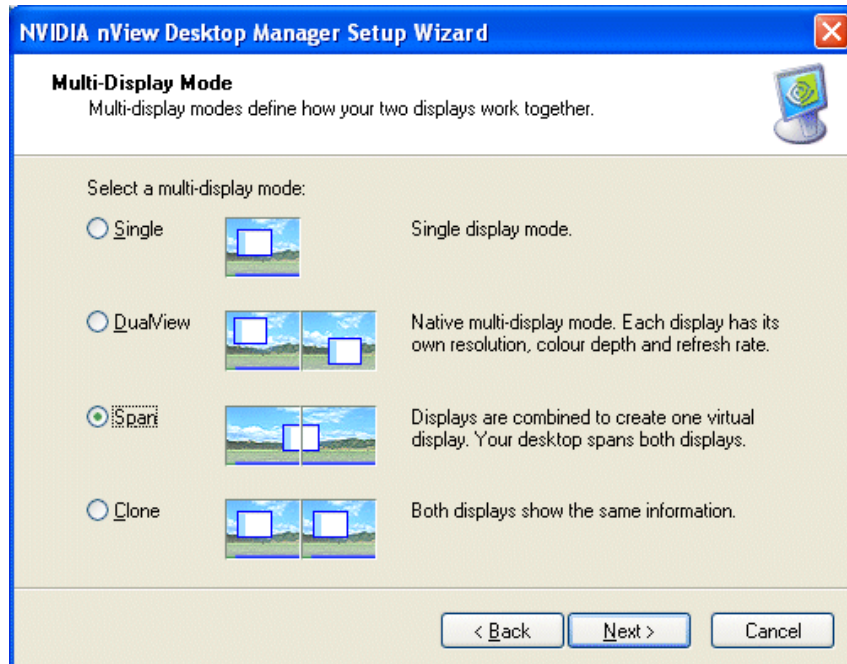


Figure 4.8 Auto-Launch Wizard Display Settings — Span Mode (Example 1)



Figure 4.9 Auto-Launch Wizard Display Settings — Span Mode (Example 2)



Figure 4.10 Auto-Launch Wizard Display Settings — Span Mode (Example 3)



Figure 4.11 Auto-Launch Wizard Display Settings — Span Mode (Example 4)



Figure 4.12 Auto-Launch Wizard Multi-Display Mode — Clone Mode Selected

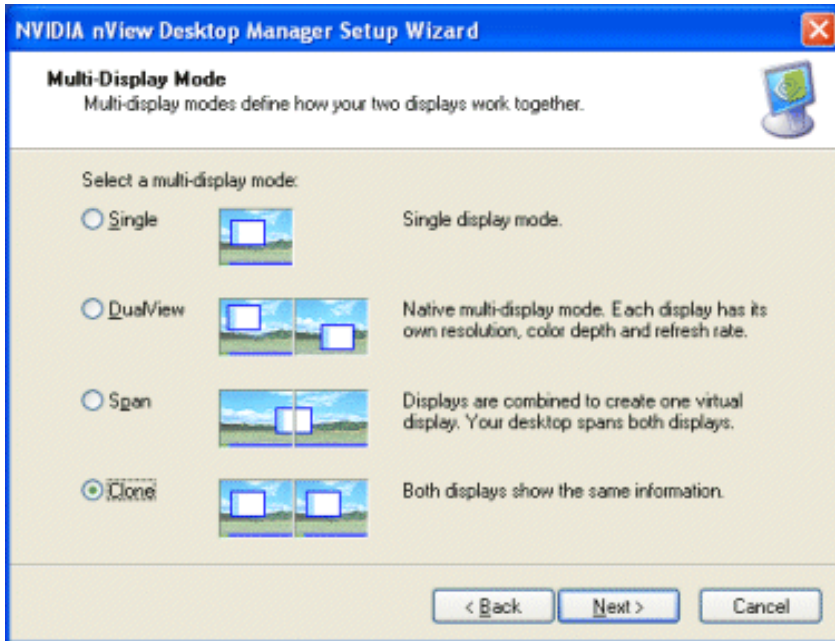


Figure 4.13 Auto-Launch Wizard Display Settings — Clone Mode (2 CRT Example)

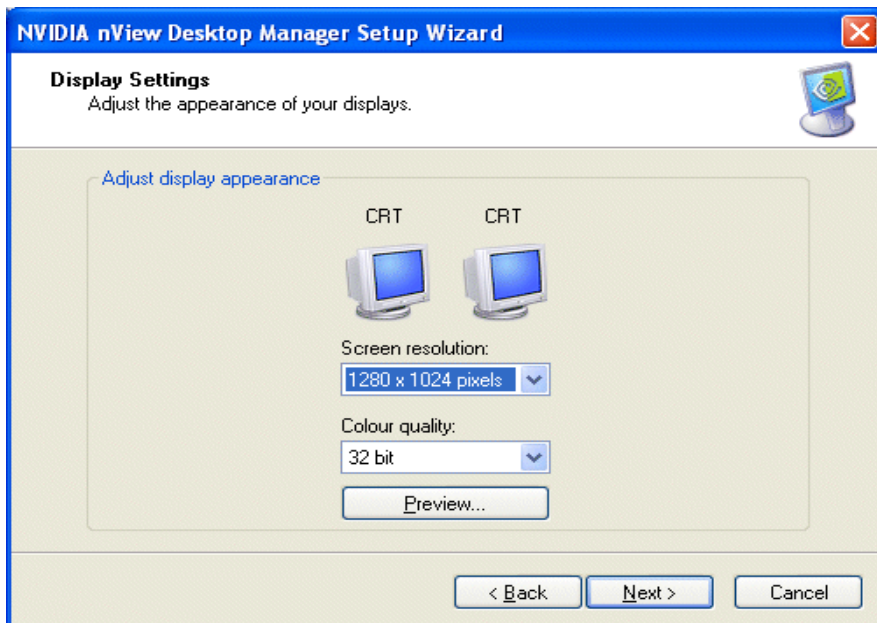


Figure 4.14 Auto-Launch Wizard — NOT Enabling Desktop Manager



Figure 4.15 Auto-Launch Wizard Completion Without Enabling nView Desktop Manager



Figure 4.16 Auto-Launch Wizard — Enabling nView Desktop Manager I



Figure 4.17 Wizard Completion

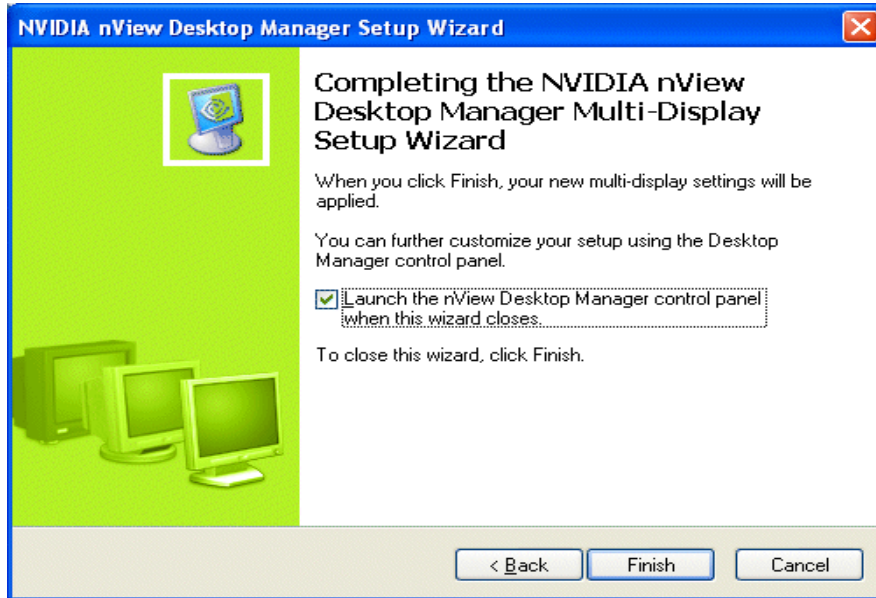
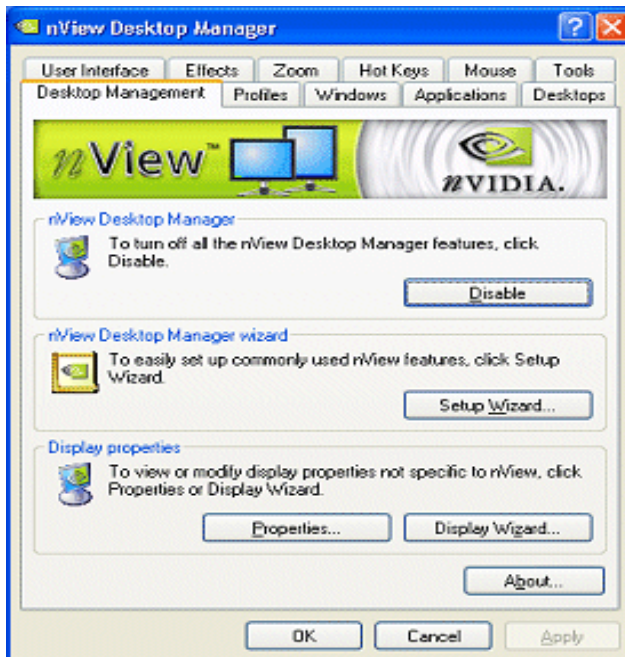


Figure 4.18 nView Desktop Manager Control Panel Launched



Setup Wizard

The Wizard pages in this section are available when you click the **Setup Wizard** option from the Desktop Management panel (Figure 4.18).

Note: If the Setup Wizard option is disabled (grayed), click **Enable** and **Apply** to enable nView Desktop Manager. The **Setup Wizard** will now be enabled for use.

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 4.19 nView Desktop Manager Setup Wizard — Welcome Page



Figure 4.20 nView Desktop Manager Setup Wizard — Selecting a Profile

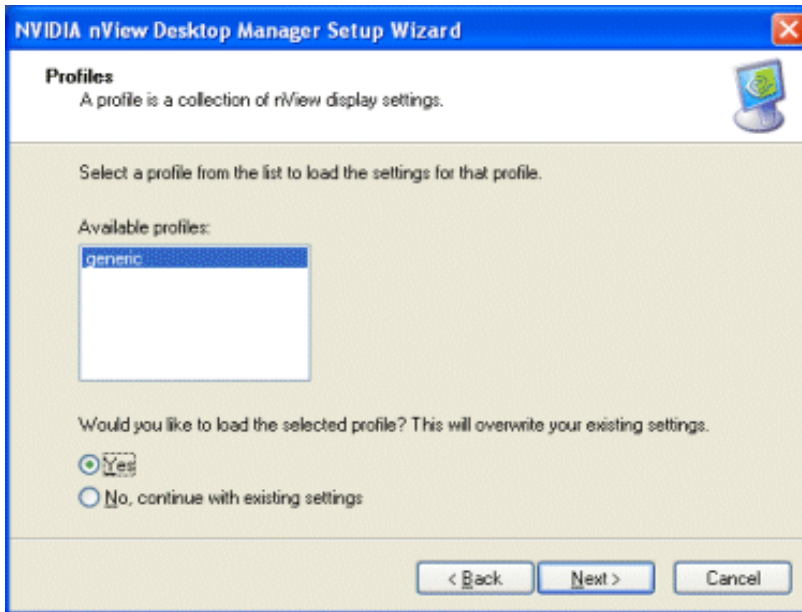


Figure 4.21 nView Desktop Manager Setup Wizard — Selecting a Profile When Using a Quadro-based Graphics Card

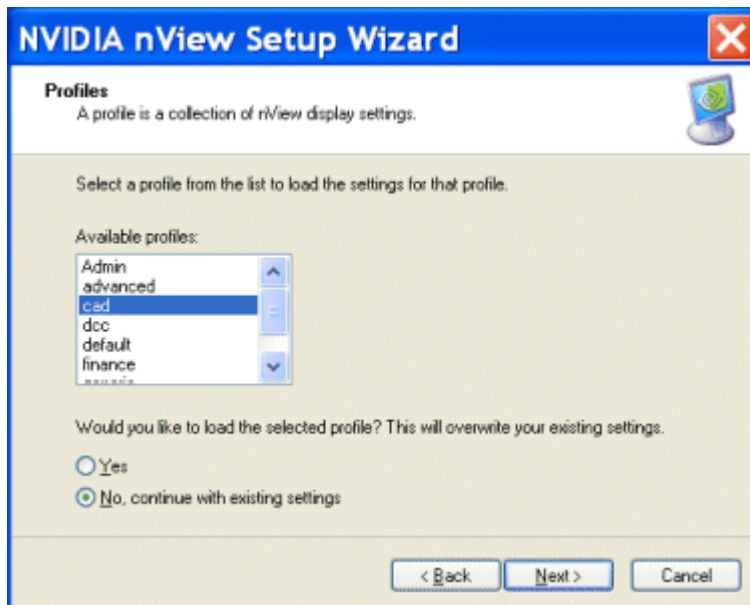


Figure 4.22 nView Desktop Manager Setup Wizard — Window Management (1)

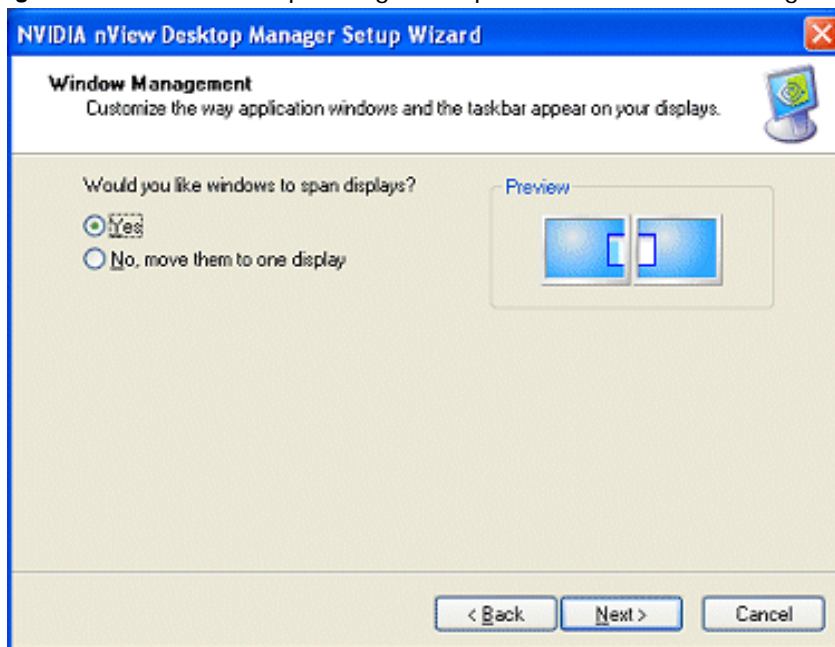


Figure 4.23 nView Desktop Manager Setup Wizard — Window Management Options When Using a Quadro-based Graphics Card (1)

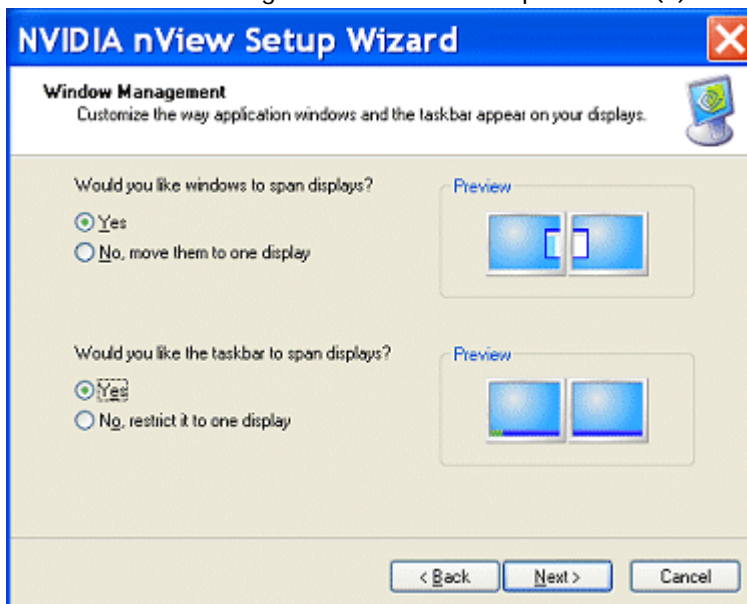


Figure 4.24 nView Desktop Manager Setup Wizard — Window Management (2)

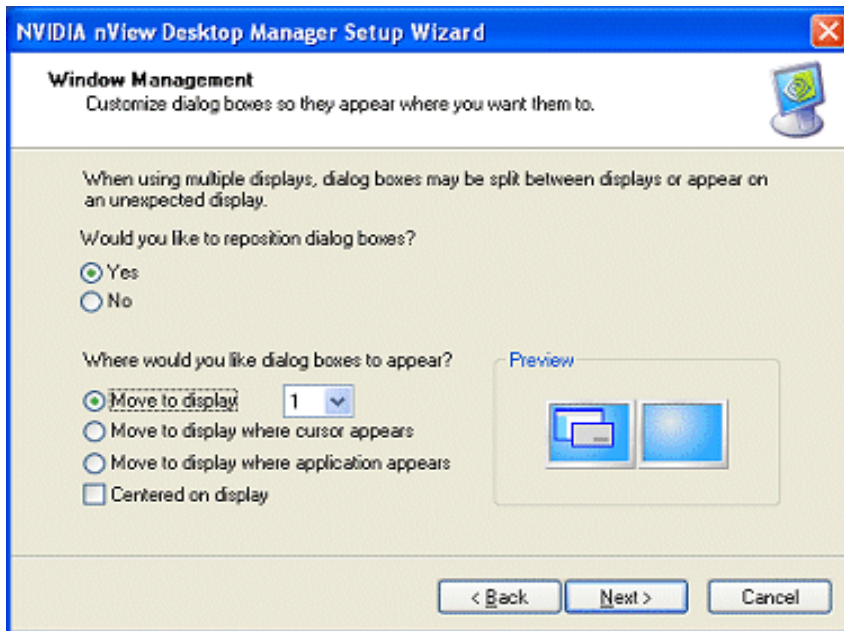


Figure 4.25 nView Desktop Manager Setup Wizard — Window Management Page (3)

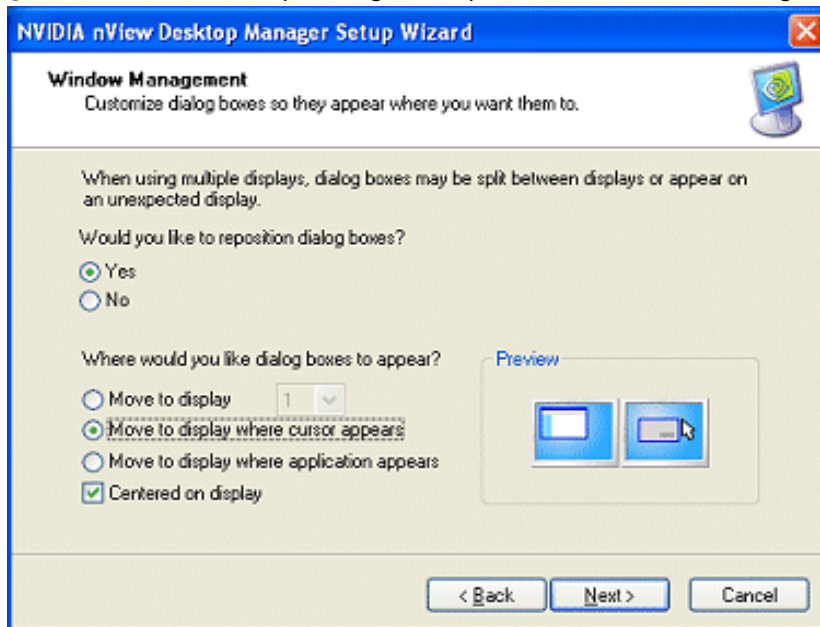


Figure 4.26 nView Desktop Manager Setup Wizard — Enabling the nView Desktop Manager Control Panel

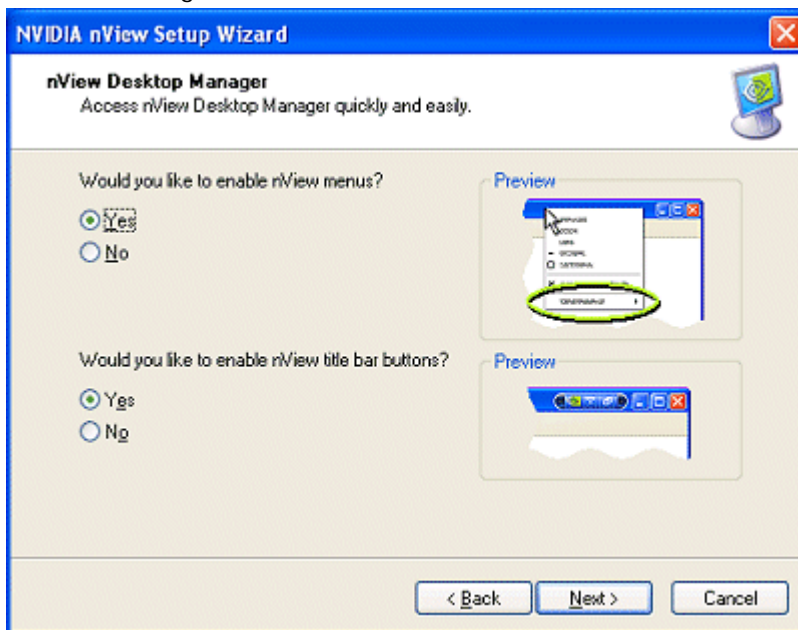
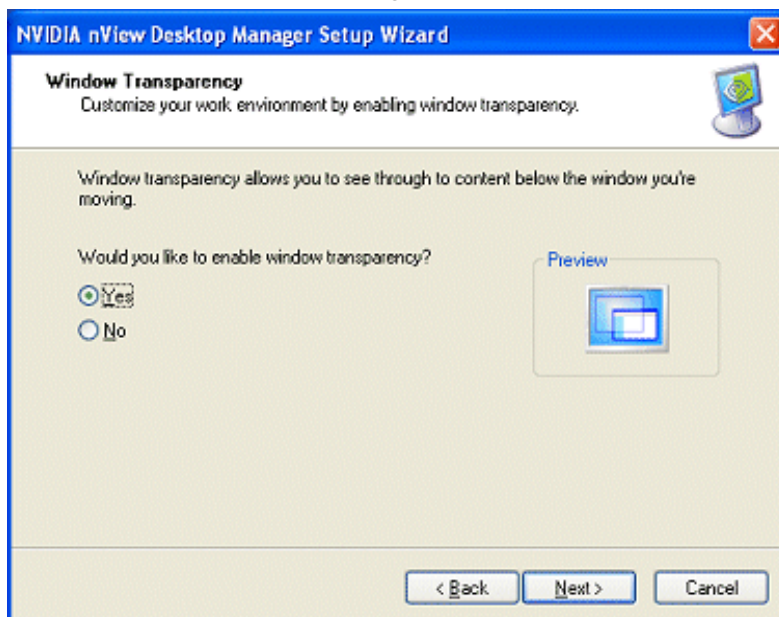


Figure 4.27 nView Desktop Manager Setup Wizard — Window Transparency



For examples of other Wizard pages, including the new TV and HDTV setup pages, see “NVIDIA Setup Wizard Pages” on page 210.

Figure 4.28 nView Desktop Manager Setup Wizard — Completion

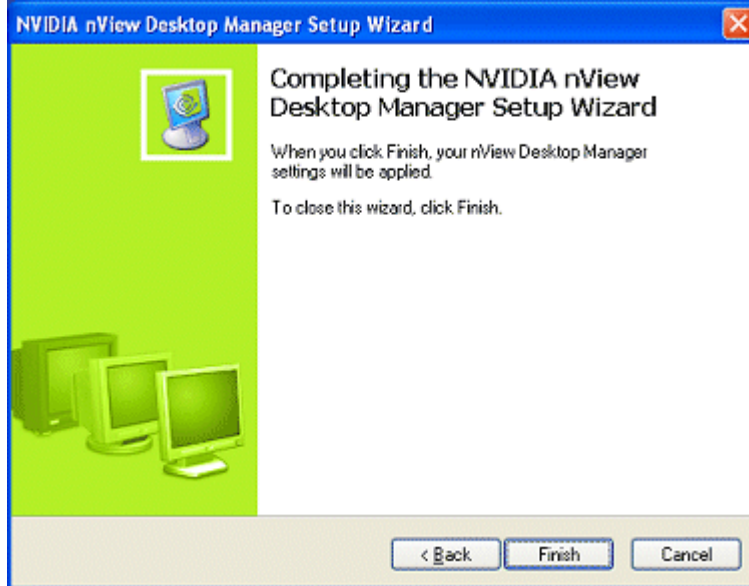
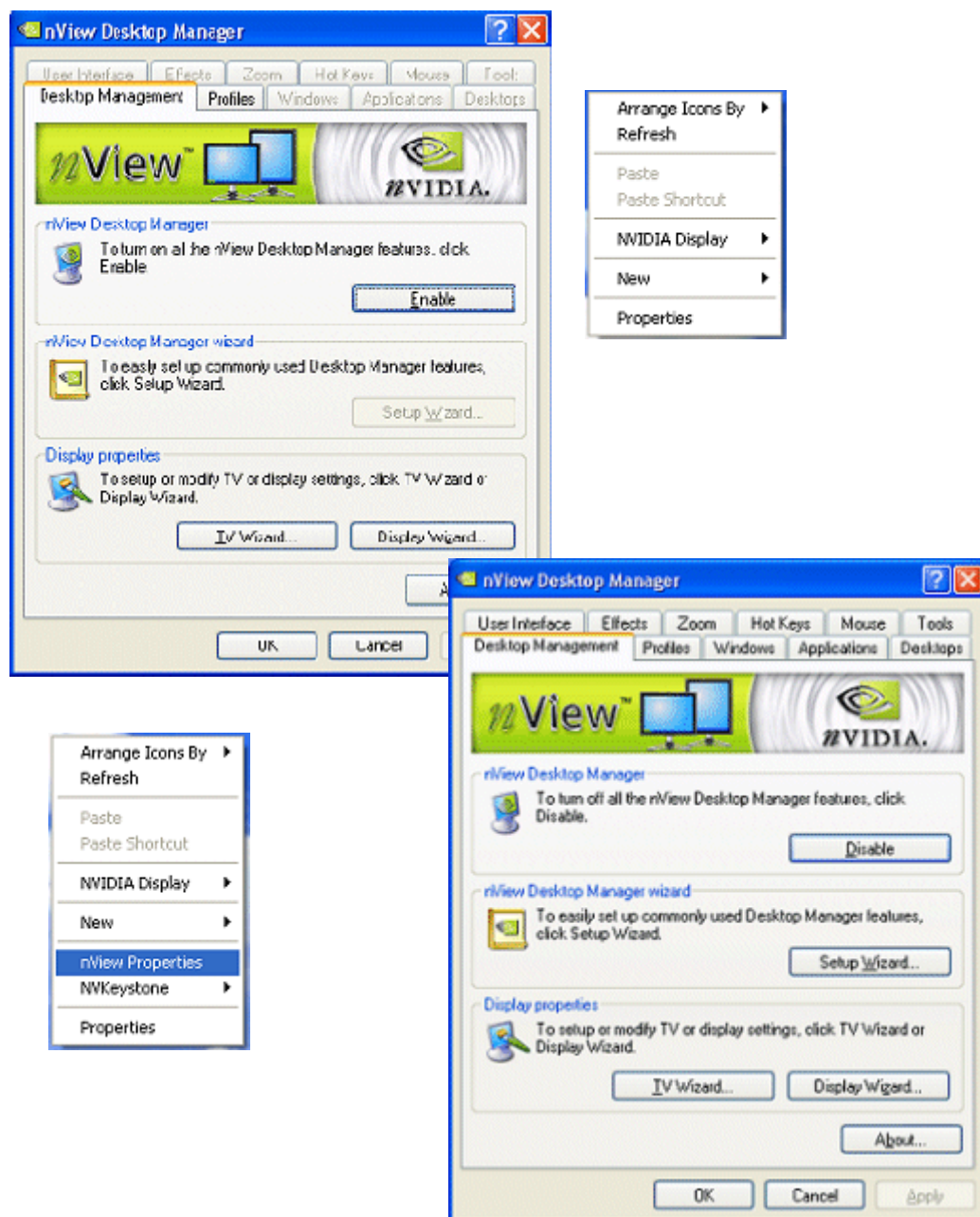


Figure 4.29 nView Desktop Manager Control Panel Launched



CHAPTER 5

WORKING WITH PROFILES

This chapter discusses the following topics:

- “About Profiles” on page 60
- “Benefits of Using Profiles” on page 63
- “Accessing the Profiles Page” on page 64
- “List of Profiles” on page 64
- “Load Profile Dialog Box” on page 66
- “Loading a Profile” on page 67
- “Creating a Profile” on page 68
- “Saving a Profile” on page 70
- “Deleting a Profile” on page 71
- “Importing a Profile” on page 71
- “Exporting a Profile” on page 72

About Profiles

You can configure profiles settings on both single-display and multi-display computer setups. Use these settings to save your nView Desktop Manager settings *as well as* your NVIDIA graphics driver 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 using the **Load** option from the Profiles page.

Profile are a “snapshot” of your “NVIDIA graphics driver” and “nView 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 later on. 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 nView Desktop Manager settings. Use the **Save** option to update the profile with your current (new) nView Desktop Manager and/or NVIDIA graphics driver settings.

Note: Under Windows XP/2000 and Windows NT 4.0, you must have, at least, **Power User** access privileges in order to *create, save, delete, import, and export* profiles.

NVIDIA river Information

NVIDIA graphics driver information in a profile *can include*:

- Desktop colors — brightness, contrast, gamma, Digital Vibrance, image sharpening, etc.
- OpenGL and Direct3D
- Performance and quality
- Overlay and full-screen
- Overlap and edge-blending — includes NVKeystone settings
- Screen resolution and refresh rate
- and more...

nView Desktop Manager Information

nView Desktop Manager information in a profile *can include* the following categories of information:

- “Open Application State” on page 61
- “Desktop Management” on page 62
- “Display Mode” on page 62

Open Application State

“Open application states” refers to saving the information about a set of applications to launch when a profile is loaded. When you save a profile with the “open

application states” option enabled, the open application(s) on your desktop(s) are recorded and stored in the profile you are saving. When you load the profile, those same application(s) are reopened.

Note: “Open application state” saving is an available feature with both NVIDIA GeForce-based and Quadro-based graphics cards. but with a limitation —

When using GeForce-based cards, up to *eight* applications states can be saved and loaded. NVIDIA When using Quadro-based graphics cards, there is no such limitation.

The following is the mechanism for saving 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.

Desktop Management

Desktop management information can include:

- Multiple desktops and their backgrounds
- Individual application settings
- Windows and dialog box positioning
- User interface settings and other effects, such as window and taskbar transparency settings
- Mouse and zoom settings
- Hot key settings

Display Mode

Display mode information can include the number and position of each of your enabled display device, each display device’s refresh rate, resolution, color depth, and so on.

Note: However, unlike desktop management settings, display mode settings depend on 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.

Taskbar Position

When saving a profile, if you have enabled the **Display mode** option (check box) and you also want to save (to later restore) the Windows taskbar position, then enable the **Taskbar position** option (check box).

Computer Power State

When saving a profile, if you have enabled the **Display mode** option (check box) and you also want to save (to later restore) your computer's power state, then enable the **Computer power state** option (check box).

Your computer is always running a particular power profile. To access your **power profile**, open the Windows Control Panel and open the **Power** program. You will notice that your system is set up to use a particular **power profile**. The power profile controls your system's power management. For desktop systems, this is almost always the "Always On" profile but for mobile (notebook) computers, this can be "Long Life," "Extremely Long Life," "Performance," and other, which can include many manufacturer-specific profiles).

Show This Profile in the Display Scheme Menu

If this option is enabled, the profile being saved will appear in the nView Display Scheme menu, which is available through an assigned nView hot key. For details, see ["Display Settings Actions" on page 175](#)

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.

Accessing the Profiles Page

- 1 If you need help accessing the nView Desktop Manager control panel, see [“Accessing the nView Desktop Manager Control Panel” on page 37.](#)
- 2 Click the **Profiles** tab or menu option to display the nView Desktop Manager Profiles page. Sample Profiles pages are shown in [Figure 5.1](#) and [Figure 5.3](#).

Note: Under Windows XP/2000 and Windows NT 4.0, you must have, at least, **Power User** access privileges in order to *create, save, delete, import, and export* profiles.

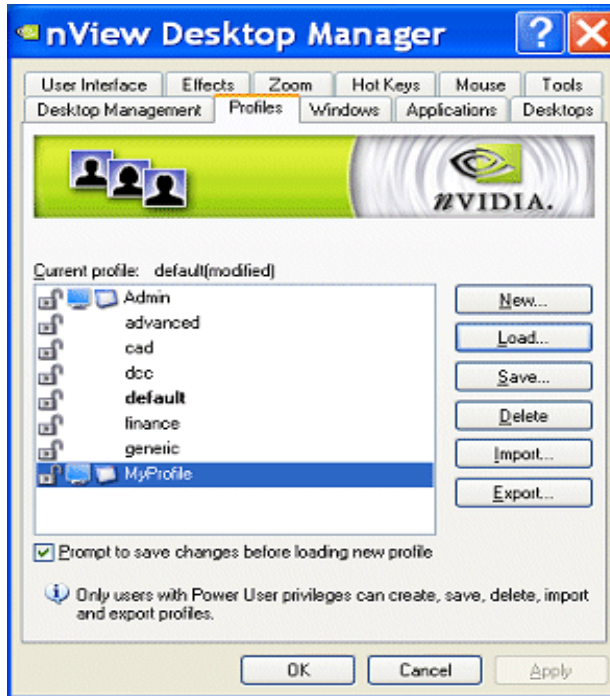
Note: If you are using an NVIDIA Quadro GPU-based graphics card, additional pre-defined profiles are provided by NVIDIA and viewable on the Profiles page, as shown in [Figure 5.1](#).

List of Profiles

The Profiles page display a list of profiles available for loading, as shown in the examples in [Figure 5.1](#) and [Figure 5.3](#).

If you are using an NVIDIA Quadro GPU-based graphics card, the nView Desktop Manager installation comes with additional 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.

Figure 5.1 Sample Profiles Page — For NVIDIA Quadro-based Graphics Cards



Each profile in the list displays one or more of these icons:



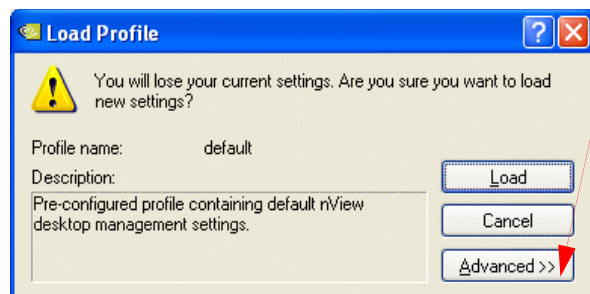
- A **locked profile** displays a “closed padlock” icon in the profiles list. You cannot modify the nView settings of a locked profile.
- An **unlocked profile** displays an “open padlock” icon in the profiles list — as shown in Figure 5.1 — and has no restrictions.
- A **monitor icon**  (Figure 5.1) means that there is NVIDIA ForceWare graphics driver information stored in the profile. When you create or save a profile, you can choose to include NVIDIA ForceWare graphics driver settings information with the profile.
- An **application icon**  (Figure 5.1) means that application states have been saved within this profile. When you create or save a profile, you can choose to include nView desktop management settings information with the profile.

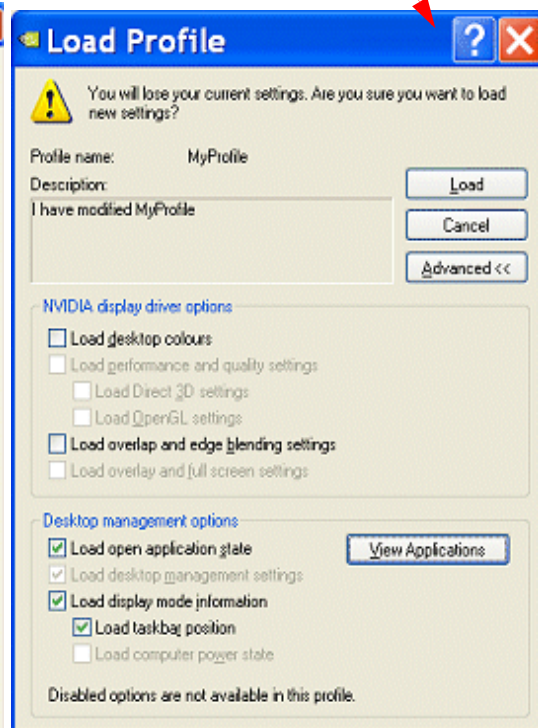
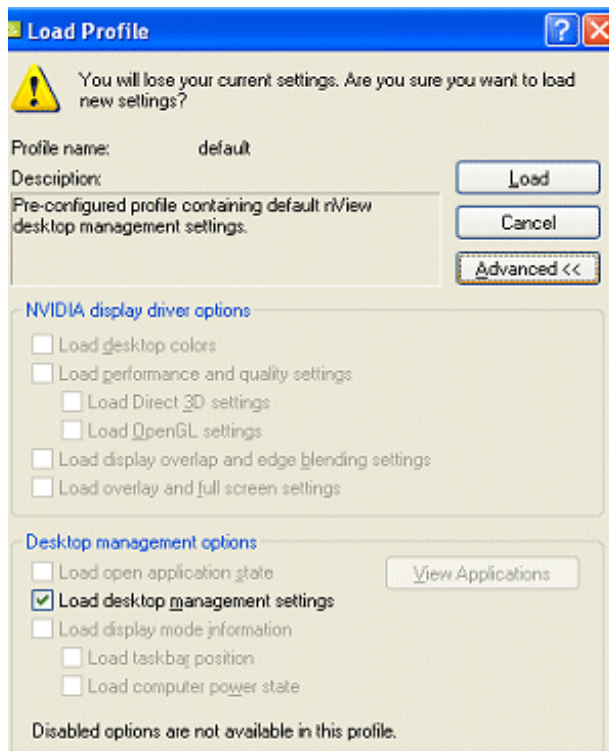
Figure 5.2 Load Profile Dialog Box



If you are an advanced user, click **Advanced >>** to expand the Load Profile dialog box — as shown below.

The enabled and disabled (grayed) settings vary, based on the type of profile, how it was saved, the access privileges it was assigned, etc.

For Help on an option, click the ? icon, move the icon to the option for which you need Help, and click to display the Help.



Current Profile

The **Current profile** heading (shown in [Figure 5.1](#) and [Figure 5.3](#)) simply displays the name of the current profile that is loaded or saved. Notice that the current profile is also shown in **bold** in the profiles list.

Loading a Profile

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

- 1 To load a profile, select a profile from the list and click **Load**.

The Load Profile dialog box appears ([Figure 5.2](#)) indicating that your current profile settings will be overwritten by the profile settings you are about to load.

- 2 If you are an “advanced” user, click **Advanced >>** to expand the dialog box as shown in [Figure 5.2](#).

- 1 To customize any of the settings, you can clear or check (enable) any of the check boxes that correspond to the settings.

The enabled and disabled (grayed) settings vary, based on the type of profile, how it was saved, its access settings, etc.

- 2 For **Help** on the options, click the ? icon ([Figure 5.2](#)), move it to the option for which you want Help, and click to display the Help. Or you can refer to the following sections earlier in this chapter:

“NVIDIA river Information” on page 61

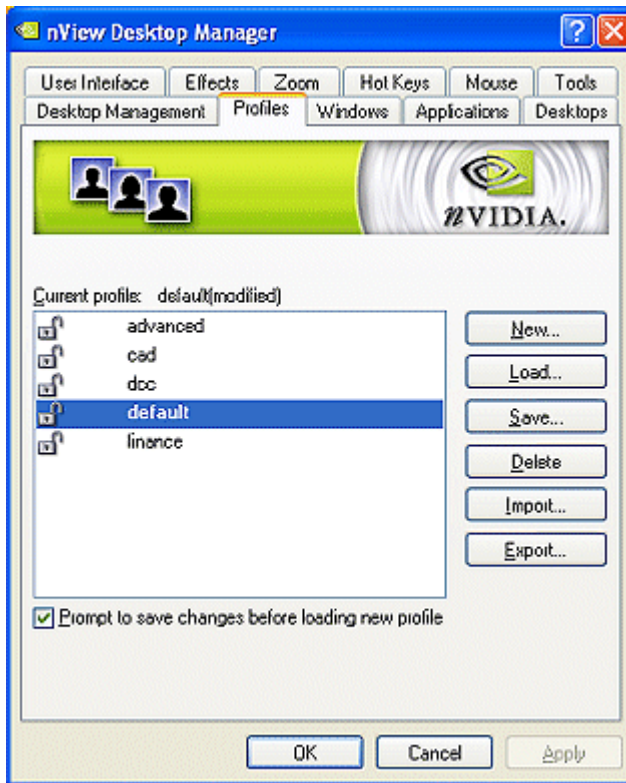
“nView Desktop Manager Information” on page 61

Note: If you have checked the **Load display mode information** but 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 Management settings in the profile will be loaded.

- 3 To complete loading the new profile, click **Load**.

You are returned to the Profiles page, which displays the name of the loaded profile in **bold** in the profiles list *and* as the “Current profile:” ([Figure 5.3](#)).

Figure 5.3 Profiles Page — *After* Loading the “dcc” Profile



Creating a Profile

Note: Under Windows XP/2000 and Windows NT 4.0, you must have, at least, **Power User** access privileges in order to *create* a profile.

- 1 To create, name, and add a new profile that contains all of the current nView settings, click **New** from the Profiles page.

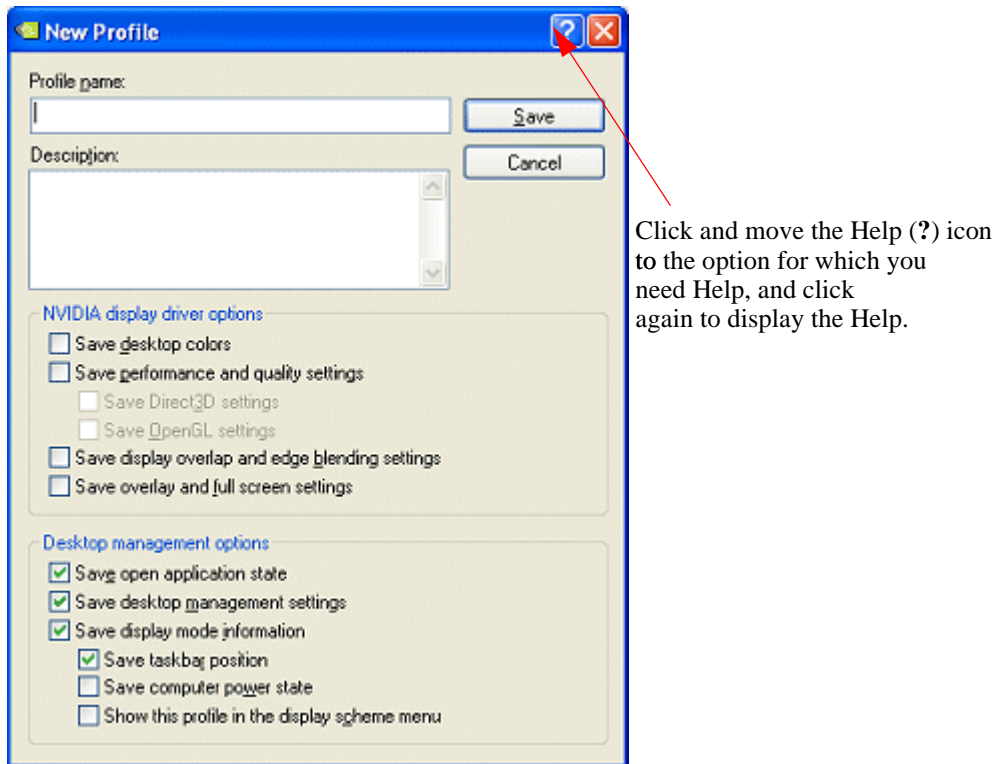
The New Profile dialog box appears, as shown in [Figure 5.4](#).

- 2 Enter a profile name and description.
- 3 To customize the settings, you can clear or check (enable) any of the check boxes that correspond to the settings.

4 For **Help** on the options, click the ? icon (Figure 5.4), move it to the option for which you want Help, and click to display the Help. Or you can refer to the following sections earlier in this chapter:

- “NVIDIA river Information” on page 61
- “nView Desktop Manager Information” on page 61.

Figure 5.4 New Profile Dialog Box



5 Click **Save** to save the profile.

Note: Under Windows 2000/XP, *newly created* profile (.tvp) files are saved in the following directory:

Documents and Settings\All Users\Application Data\nView_Profiles

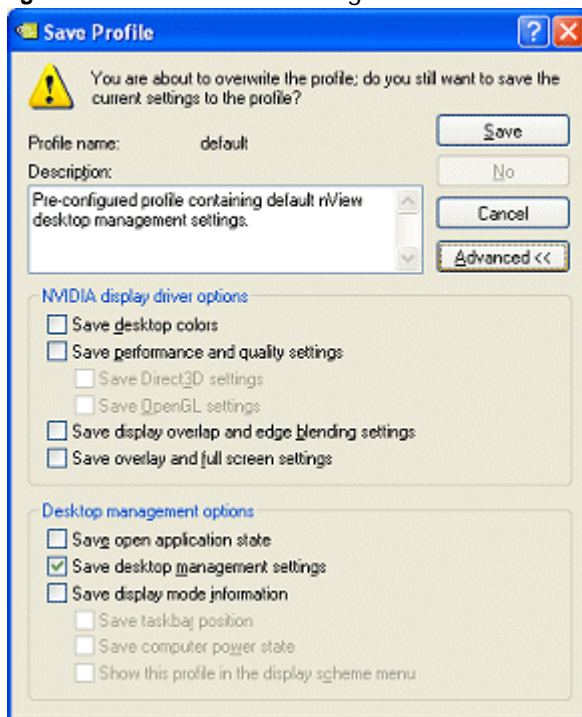
Saving a Profile

Note: Under Windows XP/2000 and Windows NT 4.0, you must have, at least, **Power User** access privileges in order to *save* a profile.

- 1 If you want to overwrite the *current* profile with modified nView Desktop Manager and/or NVIDIA ForceWare graphics driver settings, click **Save** from the Profiles page.

The **Save Profile** dialog box appears (Figure 5.5). Notice that a warning message indicates that you are about to overwrite the selected profile.

Figure 5.5 Save Profile Dialog Box



- 2 If you are an “advanced” user and want to customize certain settings in the saved profile, click **Advanced <<** to expand the dialog box (Figure 5.5).
 - 1 To customize the settings, you can clear or check (enable) any of the check boxes that correspond to the settings.

- 2 For **Help** on the options, click the ? icon (Figure 5.4), move it to the option for which you want Help, and click to display the Help. *Or* you can refer to the following sections earlier in this chapter:

“NVIDIA river Information” on page 61

“nView Desktop Manager Information” on page 61

- 3 Click **Save** to complete saving the profile; otherwise, click **Cancel**.

Predefined nView Desktop Manager profile (.tvp) files are saved in the following directory on your computer: **Windows\nView**

Deleting a Profile

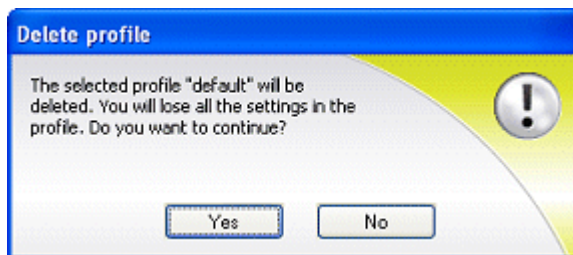
Note: Under Windows XP/2000 and Windows NT 4.0, you must have, at least, **Power User** access privileges in order to *delete* a profile.

- 1 From the Profiles page, select the profile you want to delete.

- 2 Click **Delete**.

A warning message (Figure 5.6) indicates that you are about to lose all the settings in the selected profile you are about to delete.

Figure 5.6 Deleting a Profile



- 3 Click **Yes** to continue with the deletion process; otherwise, click **No**.

Importing a Profile

Note: Under Windows XP/2000 and Windows NT 4.0, you must have, at least, **Power User** access privileges in order to *import* a profile.

Use the **Import** option to copy a profile from another location or computer to your current computer. You can load the file *after* you import it.

- 1 From the Profiles page, click **Import**.
- 2 Change directory, if needed, to locate the profile (.tvp) file you want to import.
Tip: You may want to search the following locations on the system(s) from which you are importing the profile(s):
 - `Windows\nView`
 - `Documents and Settings\All Users\Application Data\nView_Profiles`
- 3 Click **Open**. You are returned to the Profiles page, which now displays the profile you just import.
- 4 To load this profile, click **Load**. Refer to [“Loading a Profile” on page 67](#) if you need help.

Exporting a Profile

Note: Under Windows XP/2000 and Windows NT 4.0, you must have, at least, **Power User** access privileges in order to *export* a profile.

Use the **Export** option to copy a profile from your current computer to another location.

- 1 From the Profiles page, click the profile you want to export in order to select and highlight it.
- 2 Click **Export**.
- 3 Change directory/folder, as needed.
Tip: You may want to specify the following locations on the system to which you are exporting the profile(s) — especially if you want the profile(s) to quickly appear on the target computers nView Desktop Manager Profiles page.
 - `Windows\nView`
 - `Documents and Settings\All Users\Application Data\nView_Profiles`
- 4 Click **OK** to copy the profile (.tvp) file to that folder.
You are returned to the Profiles page.

MANAGING WINDOWS

This chapter discusses the following major topics:

- “About Windows Settings” on page 73
- “Accessing the Windows Page” on page 74
- “Window Control Settings” on page 75
- “Dialog Box Repositioning Settings” on page 77

About Windows Settings

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

Note: The options on this page will be disabled (grayed) if you are using only one display or running in nView single-display mode.

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.

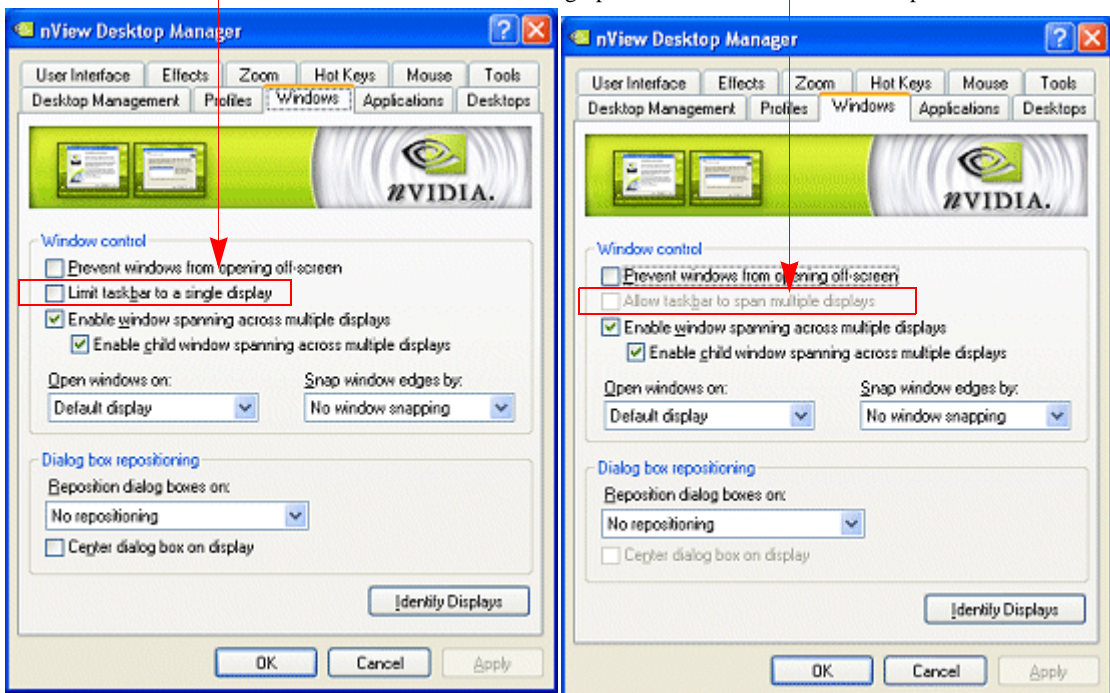
Accessing the Windows Page

- 1 If you need help accessing the nView Desktop Manager control panel, see [“Accessing the nView Desktop Manager Control Panel”](#) on page 37.
- 2 Click the **Windows** tab or menu option to display the Windows page ([Figure 6.1](#)).

Figure 6.1 Windows Page

This option is available *only* in **nView Span** modes.

This option is available *only* under Quadro GPU-based graphics cards when *not* in nView Span mode.



Window Control Settings

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

Preventing Windows from Opening Off-Screen

Select the **Prevent windows from opening off-screen** check box to prevent windows from opening off the screen.

Limiting Taskbar to a Single Display

Note: This option is available only if you have set the NVIDIA display setting to **Horizontal Span** or **Vertical Span** on the NVIDIA Control Panel.

Select the **Limit taskbar to a single display** check box (see left image in [Figure 6.1](#)) if you want to limit displaying the Windows taskbar to a single display instead of having it stretched across displays.

Allowing the Taskbar to Span Multiple Displays

Note: The **Allowing the taskbar to span multiple displays** check box is available when using graphics cards based on one of the NVIDIA Quadro series of GPUs and nView display mode is *not* set to Horizontal or Vertical Span mode.

When you select the **Allowing the taskbar to span multiple displays** check box, the Windows taskbar spans multiple display devices that are connected and active.

Enabling Window Spanning Across Multiple 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).

Enabling Child Window Spanning Across Displays

To access the **Enable child window spanning across displays** check box, you must first select the **Enable window spanning across displays** check box and click **Apply**.

Note: If you clear this check box, all child windows are prevented from spanning displays even if the parent window does.

Open Windows On Display

Click the **Open windows on** list and then specify the display where you always want to start the application.

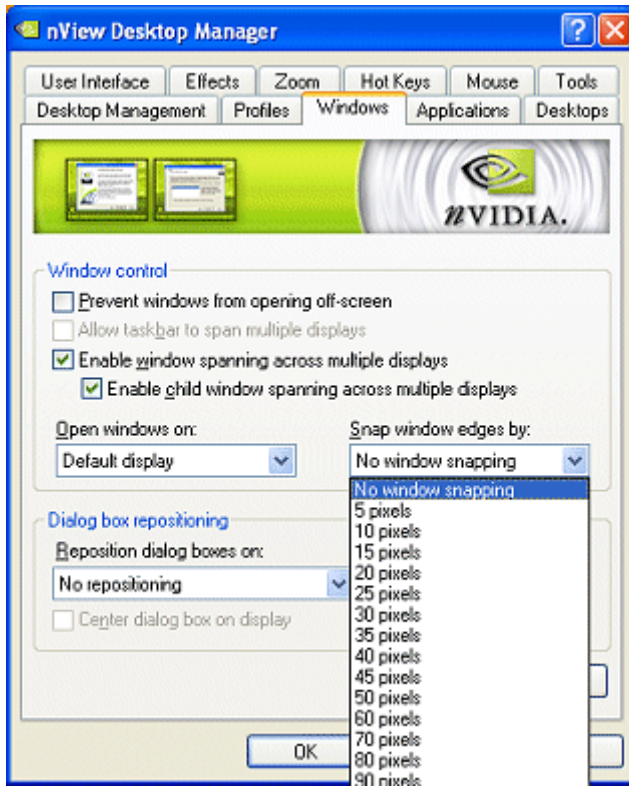
- **Use global setting** means the setting you selected for this option on the Windows page.
- **Default display** is the display that contains your Windows taskbar showing the Start menu button.
- **Start display** is the display that contains the Start menu button on the Windows taskbar.
- **Next display** is the next display that is empty.
- **Last display** is the display where you last closed the application. This setting also saves and then restores the application state (including the application window maximize or collapse state) when the application starts.
- **Display 1** or **Display 2**. If you are using a multi-display setup, these numbered displays are available, one of which you can select to open the application on.

Snap Window Edges By

Select the **Snap window edges by** check box if you want to enable window snapping for easier handling of windows when you move them.

- 1 To use the option, click the list and select a pixel value (Figure 6.2).
- 2 Then when you move a window within this value from the edge of your desktop or from another window, one or more of its edges is automatically “snapped” to one or more of the edges of your desktop or other window, depending on where you place the window.

Figure 6.2 “Snap Window Edges By” Option

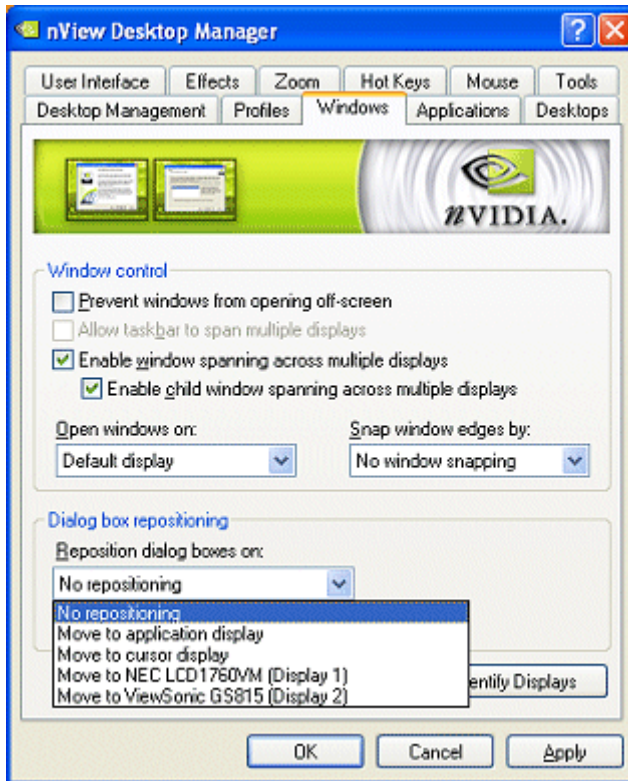


Dialog Box Repositioning Settings

Dialog box repositioning options let you specify the location of dialog boxes.

- 1 Click the **Reposition dialog boxes on** list to specify the location of dialog boxes (Figure 6.3).
- 2 Be sure to click **Apply** after enabling any of the settings.

Figure 6.3 “Reposition Dialog Boxes On” Settings



No Repositioning

This option disables dialog box control.

Move to Display *n*

(where *n* is the number) repositions dialog boxes to the specified display.

Move to Cursor Display

This option repositions dialog boxes to the display where the cursor is located.

Move to Application Display

This option repositions dialog boxes on the parent application's display.

Move to grid *n.m*

(where *n.m* is the number) repositions dialog boxes to a specific grid.

Note: When editing “grids” (see [“Enabling and Using Display Gridlines” on page 125](#)), if you enabled the feature for dialog box repositioning, you can access the above option:

Normally, the convention for identifying a display device is a number *n*, as in display *n*, or display **1**, display **2**, etc.

When grids are enabled, each display device can have grid areas.

- Grid **1.2** means **display 1, grid 2**
- Grid **2.1** means **display 2, grid 1**
- and so on.

Center Dialog Box on Display

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

Identify Displays

Click this option show the display number on each monitor that is connected and turned on.

Note: These numbers should match those on the Windows Display Properties Settings page monitor icons *and* match the numbers that appear when you click **Identify** from the same Settings page.

CHAPTER 7

MANAGING DESKTOPS

The following major topics are discussed in this chapter:

- “Notes Before You Begin” on page 82
- “Desktops List” on page 82
- “Creating Desktops” on page 82
- “Activating or Switching Desktops” on page 84
- “Renaming Desktops” on page 86
- “Removing Desktops” on page 87
- “Properties: Changing Wallpaper and Desktop Icons” on page 87
- “Multiple Desktop Global Options” on page 90

About the Desktops Page

You can use the Desktop Manager “Desktops” options 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/

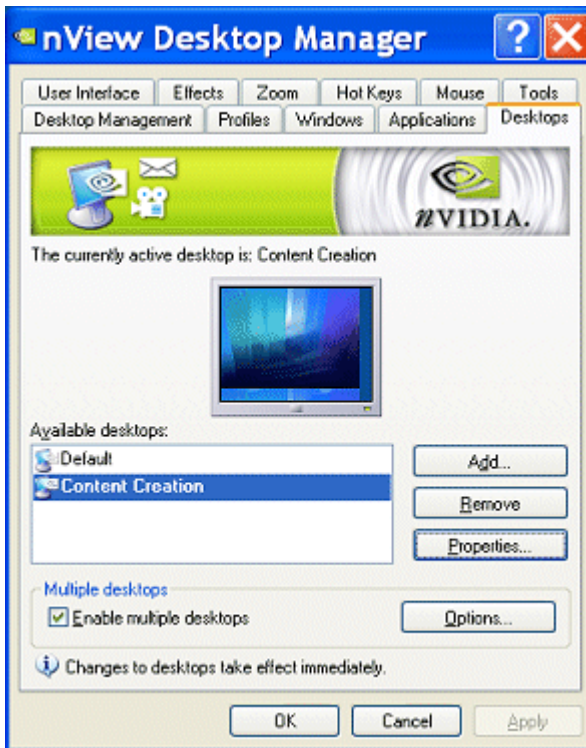
maximize applications in order to navigate between them. So, window clutter is reduced without compromising performance or using extra keystrokes.

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.

- 1 If you need help accessing the nView Desktop Manager control panel, see [“Accessing the nView Desktop Manager Control Panel”](#) on page 37.
- 2 Click the **Desktops** tab or menu option to display the nView Desktop Manager **Desktops** page (Figure 7.1).

Figure 7.1 Desktops Page



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.
- 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 87.

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 page 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

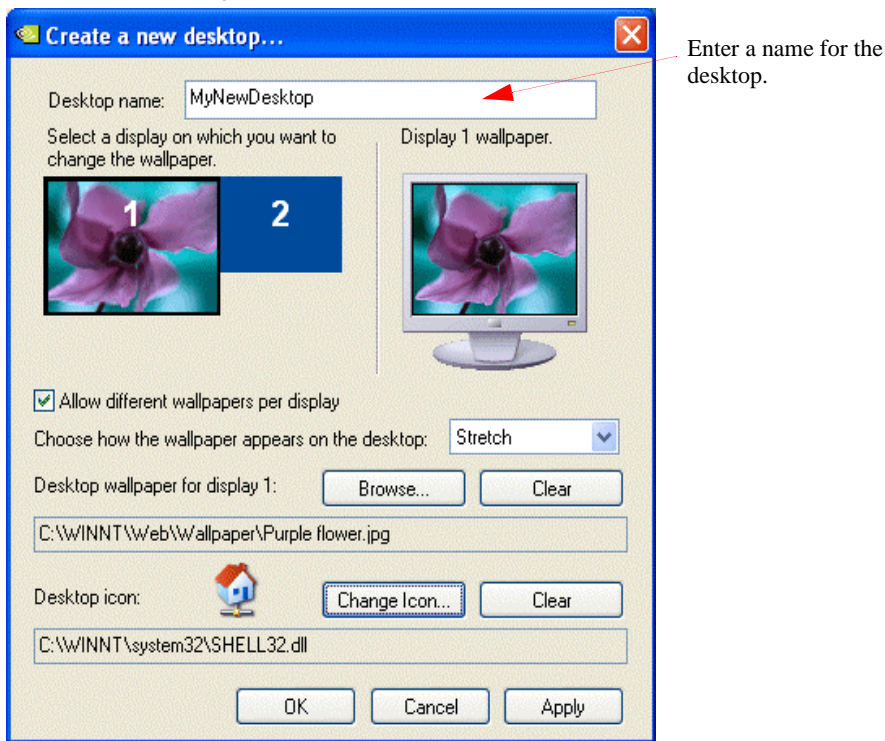
- 1 From the Desktops page (Figure 7.1), click **Add**. The “Create a new desktop” dialog box prompts for a name of the new desktop (Figure 7.2).
- 2 If you want to add a Wallpaper background and/or assign the desktop a unique “Icon”, go the next steps.

Otherwise, click **OK** to complete adding the desktop and return to the Desktops page 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.

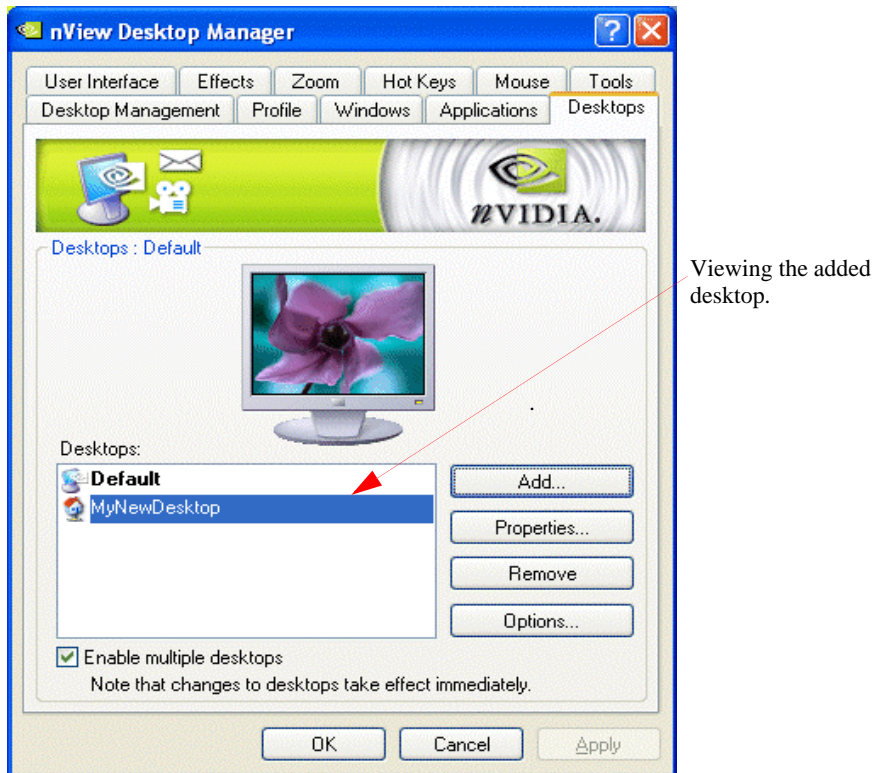
For details, see “Selecting a Background for the Desktop” on page 88, “Selecting Separate Backgrounds Per Display” on page 89, or “Selecting a Desktop Icon” on page 89

Figure 7.2 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 7.3 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 87.](#)

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 85
- “Activating Desktops From the Windows Desktop Properties Menu” on page 86
- “Activating Desktops from Desktop Explorer” on page 86
- “Activating Desktops With Hot Keys” on page 86

Activating Desktops from the NVIDIA Settings icon

To activate desktops from the NVIDIA Settings icon (Figure 7.4), follow these steps:

Figure 7.4 NVIDIA Settings icon



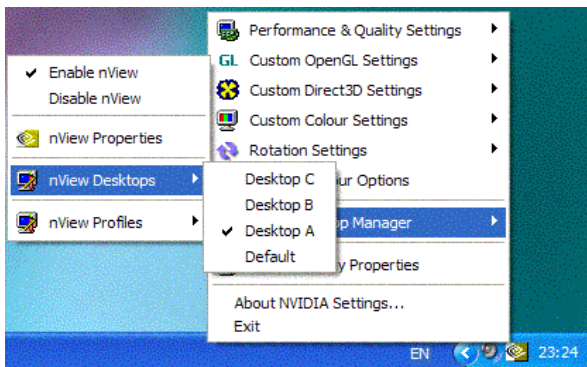
NVIDIA Settings icon

- 1 Right click the NVIDIA Settings icon from the Windows taskbar, choose **Desktop Manager > nView Desktops** to display the list of your desktops. Figure 7.5 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 7.5 Accessing Desktops Using the NVIDIA Settings Menu



Activating Desktops From the Windows Desktop Properties Menu

- 1 Confirm that nView 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 98.

Activating Desktops With Hot Keys

See [“Using Hot Keys”](#) on page 171.

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 98.

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.

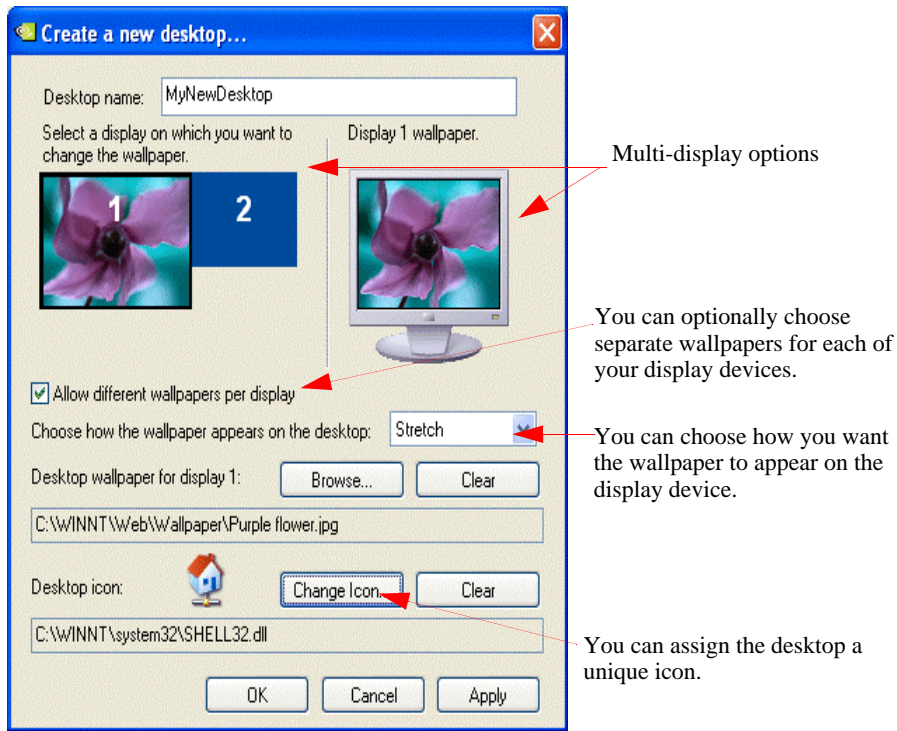
You can perform the same function from the Desktop Explorer; see [“Renaming, Deleting, and Activating Desktops from Desktop Explorer”](#) on page 98.

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 page, 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 7.6](#):
 - Browse for different wallpapers (graphics files)
 - When using multiple display devices, choose separate wallpapers for each display device.
 - Set the wallpaper style (tiled, centered, stretched)
 - Set set the desktop icon.

Figure 7.6 Changing Properties for Multiple Displays



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

- 1 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 7.6](#).

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.

- 2 If you want to completely remove the background, click **Clear**.
- 3 Click **OK** to return to the Desktops page, 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 7.6](#), 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

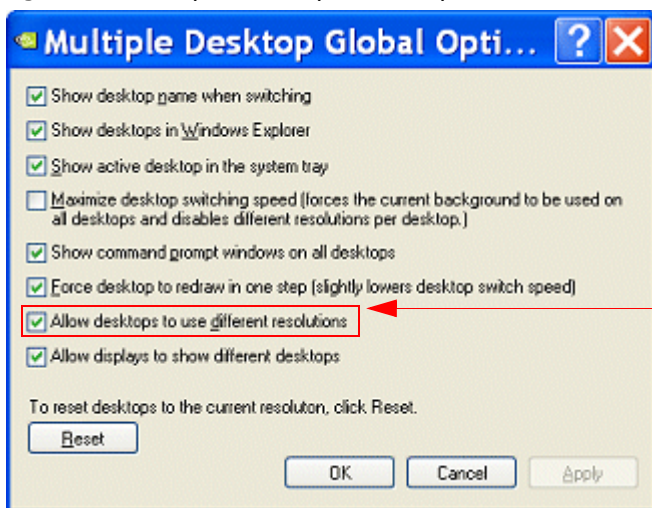
To assign an icon to a desktop, follow these steps:

- 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 7.6](#).
- 3 If you want to completely remove the icon, click **Clear**.
- 4 Click **OK** to return to the Desktops page.

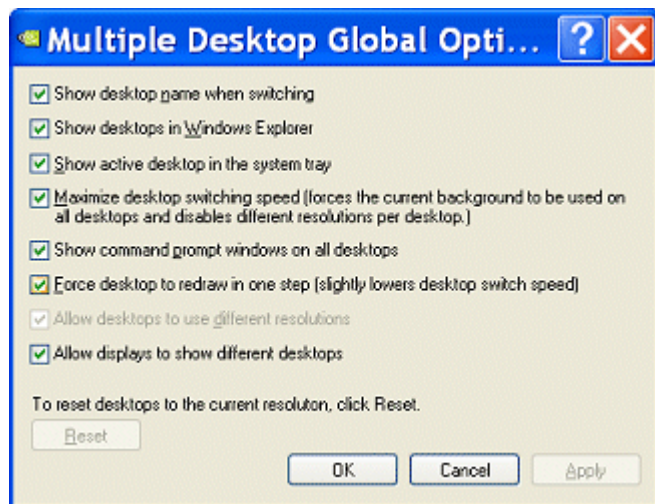
Multiple Desktop Global Options

To display the **Multiple Desktop Global Options** dialog box (Figure 7.7) click **Options** from the Desktops page.

Figure 7.7 Multiple Desktop Global Options



This option is available *only* when using a graphics card based on one of the NVIDIA Quadro series of GPUs.



Show Desktop Name When Switching

If you select the **Show desktop name when switching** check box, when you switch desktops, the name of the desktop to which you switched will be appear for approximately two (2) seconds on every display in your setup and then the desktop name will fade out.

Note: In Span modes (and Multiview mode in Windows NT 4.0), the desktop name may not appear on all displays.

Show Desktops in Windows Explorer

See [“Showing Desktops in Windows Explorer” on page 95.](#)

Show Active Desktop in the System Tray

When you select the **Show active desktop in the system tray** check box, the desktop icon (see **Note** below) for your current active desktop appears in the Windows system tray. The Windows “system tray” is also known as the Windows “taskbar notification area,” which is the area on the right side of the taskbar.

Note: To verify the assigned icon for your current desktop or any other desktop you have, follow these steps:

1. From the Desktops page, select the desktop.
2. Click **Properties** to open the Desktop Properties page.
3. View the area labeled “Desktop icon:” at the bottom of the page. You can change any assigned icon by clicking **Change Icon**.

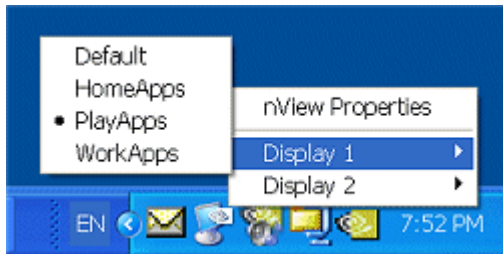
Figure 7.8 Desktop Icon for Current Active Desktop on the Windows Taskbar



Sample desktop icon for your current active desktop added to the Windows “system tray” — also known as the “taskbar notification area”.

You can also use this desktop icon to switch among desktops assigned to different displays, if you selected the **Allow Display to Show Different Desktop** check box — see [“Allow Displays to Show Different Desktops” on page 93.](#)

Figure 7.9 Using the Windows Taskbar Desktop Icon to Access Desktops per Display



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.

Note: You cannot enable both this option and the **Allow desktops to use different speeds** option at the same time because of memory constraints that can affect performance of both features.

Show Command Prompt Windows on All Desktops

When you 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 Desktops to Use Different Resolutions

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

Note: You cannot enable both this option and the **Maximize desktop switching speed** options at the same time, because of memory constraints that can affect performance of both features.

Allow Displays to Show Different Desktops

When you select the **Allow Display to Show Different Desktop** check box, you can assign desktops to each active display. This means you can conveniently view more than one desktop (one on each display) simultaneously instead of viewing only one desktop at a time.

For example, you can look at an applications in one desktop on one display and at the same time access another application from another desktop on another display. This means you don't have to leave one desktop to view an application on another desktop.

There are three basic ways you can access and switch desktops per active display:

- Use the current active desktop icon from the Windows taskbar “system tray” (notification area). See [“Show Active Desktop in the System Tray” on page 91](#) for details on enabling this feature.
- Use the nView toolbar.

In the following example, there are two connected displays and two desktops named **Default** and **Content Creation**.

In this example, **Analog Display 1** and **Analog Display 2** are the two connected displays. To identify your displays, right click on your desktop to open the desktop menu and click **NVIDIA Display** as shown in [Figure 7.10](#).

Note: The background in effect will be what you set for the active desktop. When you change per display desktop, the desktop background will be what you set for the active desktop from the **Desktops** page.

Figure 7.10 NVIDIA Display Indicating Connected Display Devices



You can use these steps to open a separate desktop on each of the two displays.

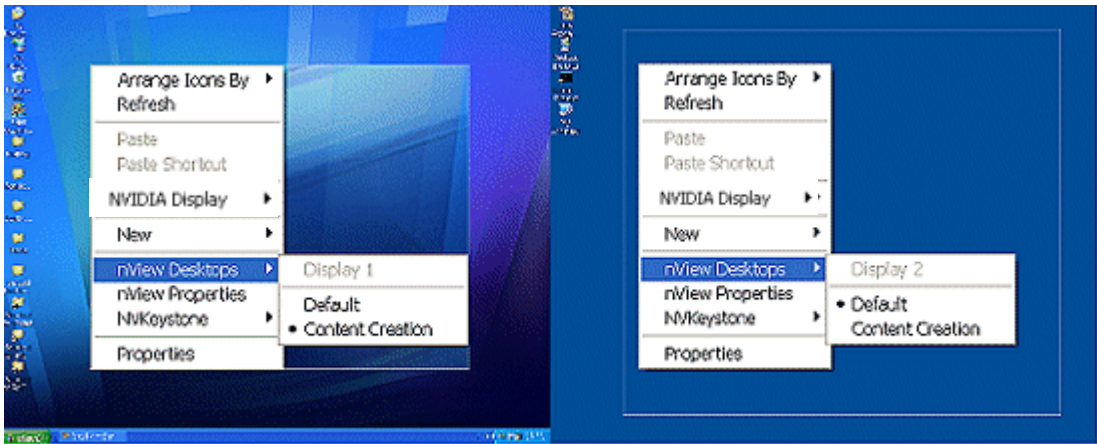
- 1 First, add the **nView Properties** and **nView Desktops** options to your Windows desktop menu — see [“Enabling nView Options in the Windows Desktop Menu” on page 108](#).
- 2 To display the **Default** desktop on your **Analog Display 1**, right-click your desktop on Analog Display 1 to open the desktop menu, click **nView Desktops** and **Default**.

The **Default** desktop is enabled on your **Analog Display 1** ([Figure 7.11](#)).

- 3 To display the **Content Creation** desktop on **Analog Display 2**, right-click your desktop on Analog Display 2 to open the desktop menu, click **nView Desktops** and **Content Creation**.

The **Content Creation** desktop is enabled on your **Analog Display 2** ([Figure 7.11](#)).

Figure 7.11 Opening Separate Desktops on Separate Display Screens



Reset Desktops to the Current Resolution

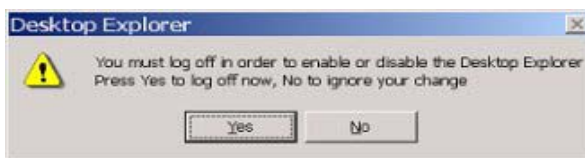
Click **Reset** to reset all your desktops to the resolution of your current desktop.

Showing Desktops in Windows Explorer

When you enable the **Show desktop in Windows Explorer** option, 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 7.12).

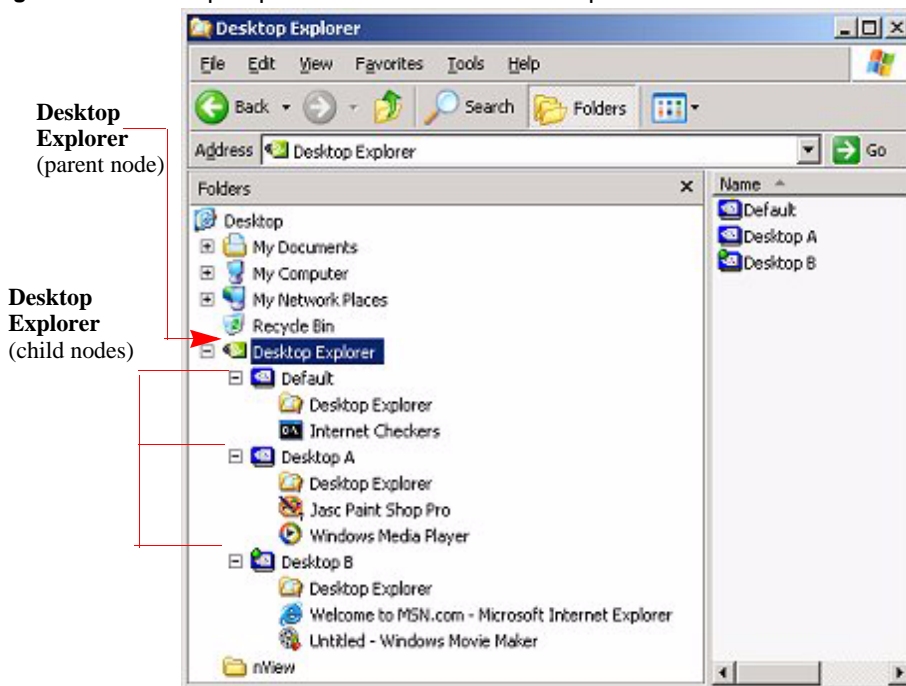
Figure 7.12 Desktop Explorer Prompt



- 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 7.13](#).

Figure 7.13 Desktop Explorer Nodes in Windows Explorer



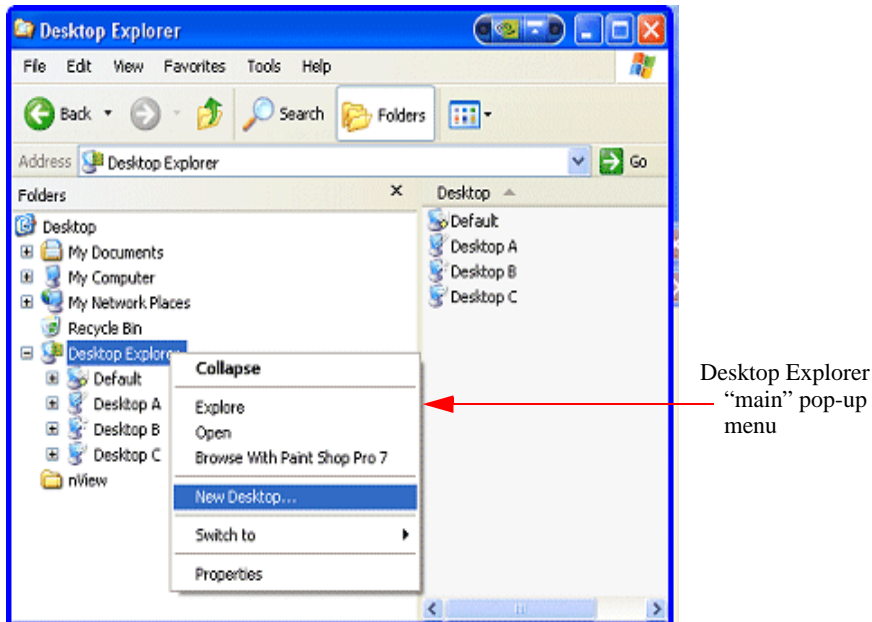
If you disabled the Desktop Manager Explorer extension, once you log back in, it will be removed from your Windows Explorer window

Note: nView 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 96](#).

Using nView Desktop Explorer

Activating the **Enable Desktop Explorer** adds a new **Desktop Explorer** node in the Windows Explorer tree ([Figure 7.14](#)), with each defined desktop being represented as a child node (with its name and icon) of the Desktop Explorer parent node.

Figure 7.14 nView Desktop Explorer — Main Context Menu



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:

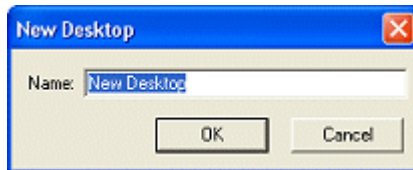
- “Creating Desktops from Desktop Explorer” on page 98
- “Renaming, Deleting, and Activating Desktops from Desktop Explorer” on page 98
- “Enhancing the Desktop Explorer “Thumbnails” View” on page 99
- “Using the Thumbnail Styles” on page 100
- “Moving Applications Between Desktops or to a New Desktop” on page 100
- “Accessing Other Application Settings from Desktop Explorer” on page 102

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 7.14](#).
- 2 Click **New Desktop** to display a dialog box to enter the desktop name.
- 3 Type the new desktop name ([Figure 7.15](#)) and click **OK**. The new desktop appears as a new desktop under Desktop Explorer.

Figure 7.15 Entering a Desktop Name

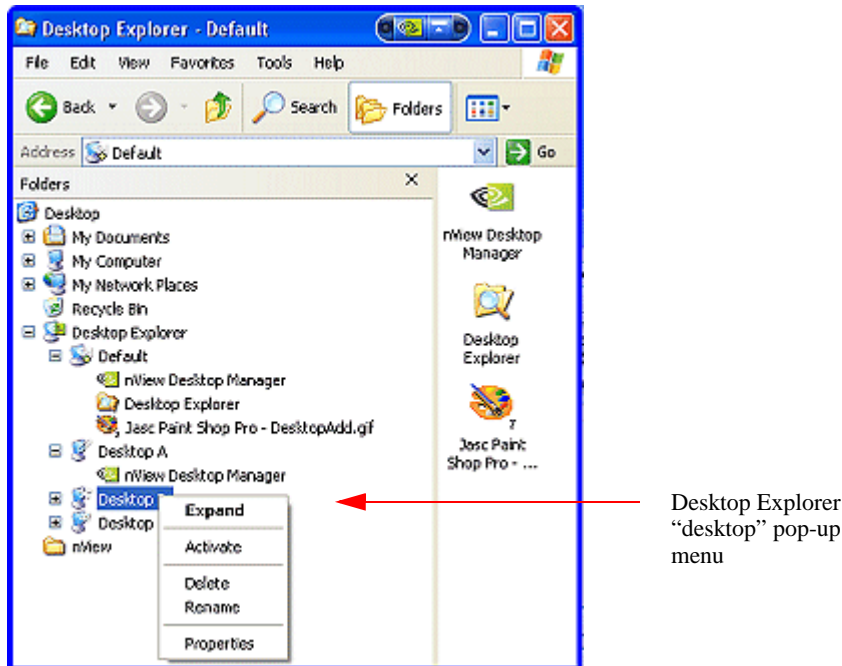


Renaming, Deleting, and Activating Desktops from Desktop Explorer

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 7.16](#).
- 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 7.16 nView Desktop Explorer — Desktop Context 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 page.

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 7.16).
- 4 Click **Thumbnails** and then select one of these styles: **Disabled**, **Wallpaper**, **Screenshot**, or **Geometry** (Figure 7.17).
- 5 Not all thumbnail styles are supported by all operating systems. However, Windows XP supports all styles.

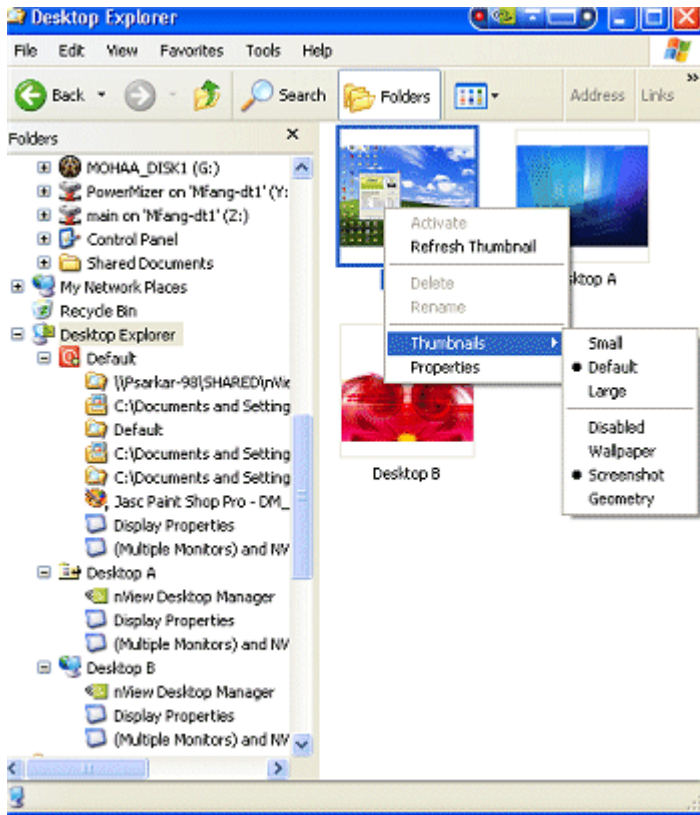
Moving Applications Between Desktops or to a New Desktop

Note: If you enabled the **nView options** menu item from the User Interface page, you can also move applications between desktops using the application's nView menu options. See [“Customizing nView Menu Options” on page 135](#) and [“nView Menu Options: Description” on page 137](#) for details.

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

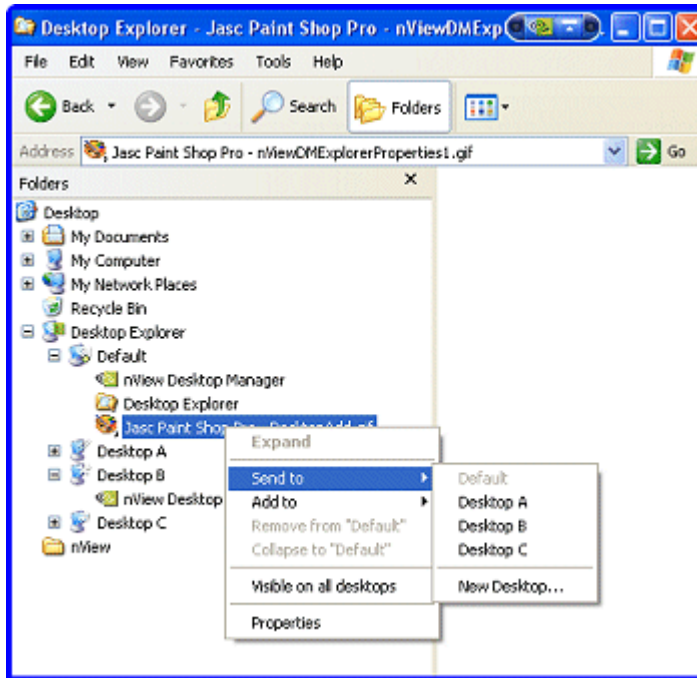
- To move applications from one desktop to another, you can use your mouse to drag and drop applications from one desktop to another.

Figure 7.17 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 7.18](#). Then follow these steps:
 - 1 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.
 - 2 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 7.18 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.

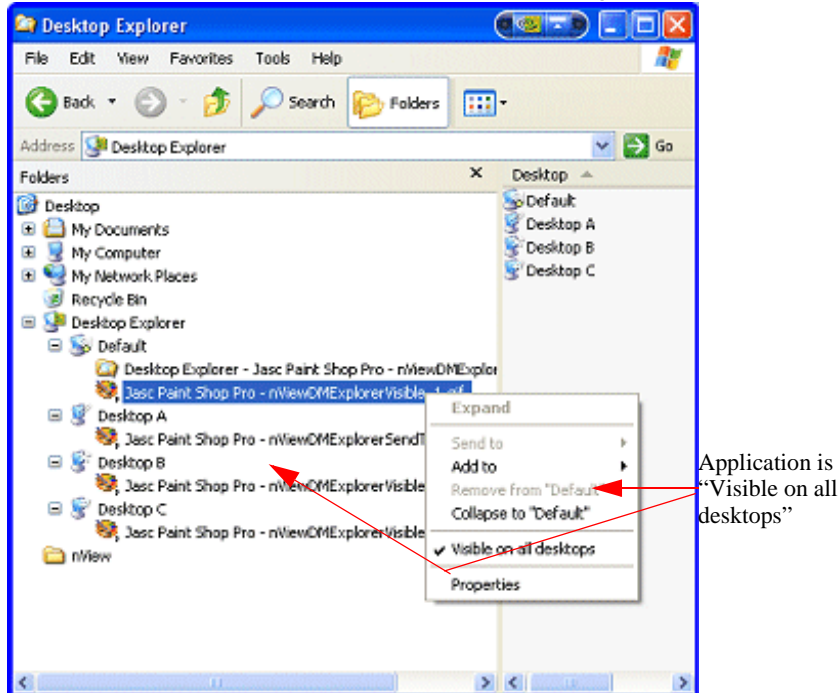
Note: If you enabled adding **nView options** . . on the User Interface page, you can also access these application-specific options using the application’s nView menu options. See [“Customizing nView Menu Options” on page 135](#) and [“nView Menu Options: Description” on page 137](#) for details.

- **Visible on all desktops**

To access this option, follow these steps:

- 1 Right click an application in a desktop to display a properties menu, as shown in [Figure 7.18](#).
- 1 Then click **Visible on all desktops** to check the option and enable it.
- 1 Notice that the application now appears under each of your desktops, as shown in [Figure 7.19](#).

Figure 7.19 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:

- 1 Right click the instance of the application that appears in the desktop in which you want the application to remain.
- 2 From the properties menu that appears, click **Collapse to <desktop name>**, as shown in Figure 7.20.
- 3 Notice that the application is removed from all desktops except the one under which you wanted the application to remain, as shown in Figure 7.21.

- **Properties.** Click **Properties** (Figure 7.20) to open the **Applications** page. For details on using the Applications settings, see “Managing Applications: For Advanced Users” on page 195.

Figure 7.20 nView Desktop Explorer — “Collapse to *Desktop n*” Application Setting

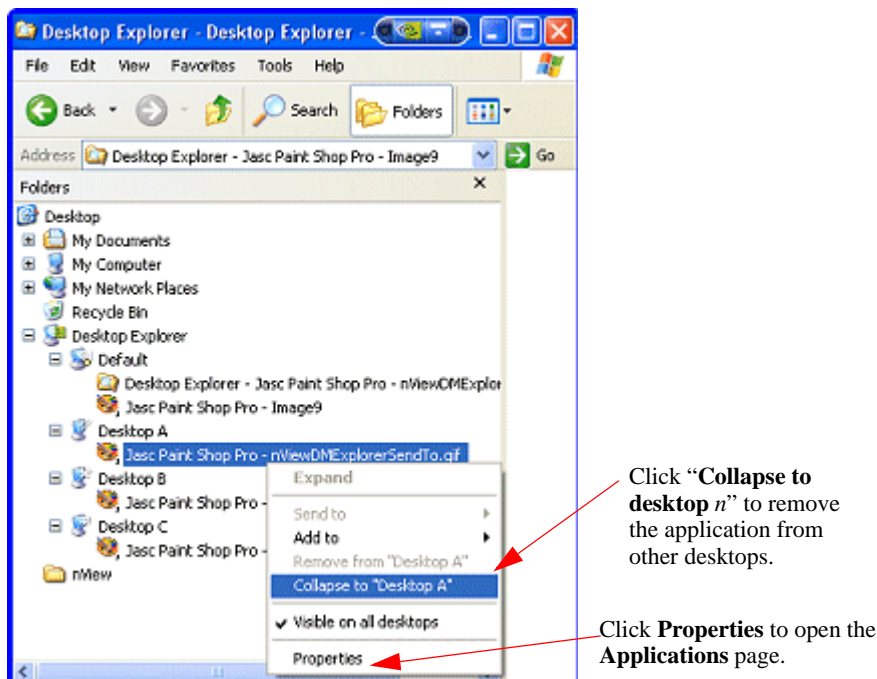
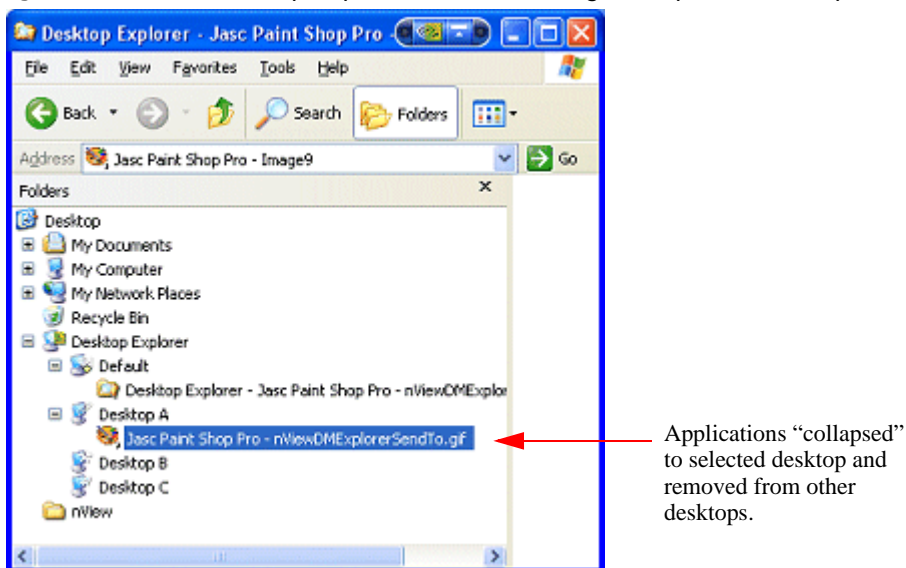


Figure 7.21 nView Desktop Explorer — *After Setting “Collapse to Desktop *n*”*



Advanced Menu Options

- Using the **Add to** desktop menu 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** menu option, you can remove an application from an individual desktop.

CHAPTER

8

USING THE USER INTERFACE SETTINGS

This chapter contains the following major sections:

- “About User Interface Settings” on page 106
- “Accessing the User Interface Page” on page 107
- “Enabling nView Options in the Windows Desktop Menu” on page 108
- “Showing Notification Messages on the Windows Taskbar” on page 112
- “Enabling the nView Task Switcher” on page 112
- “Enable nView Toolbar” on page 113
- “Enabling and Using Display Gridlines” on page 125
- “Adding Title Bar Buttons” on page 128
- “Accessing nView Menu Options” on page 133
- “Customizing nView Menu Options” on page 135

About User Interface Settings

The User Interface options let you control the nView Desktop Manager user interface within Windows. For example, using the User Interface settings, you can control the following:

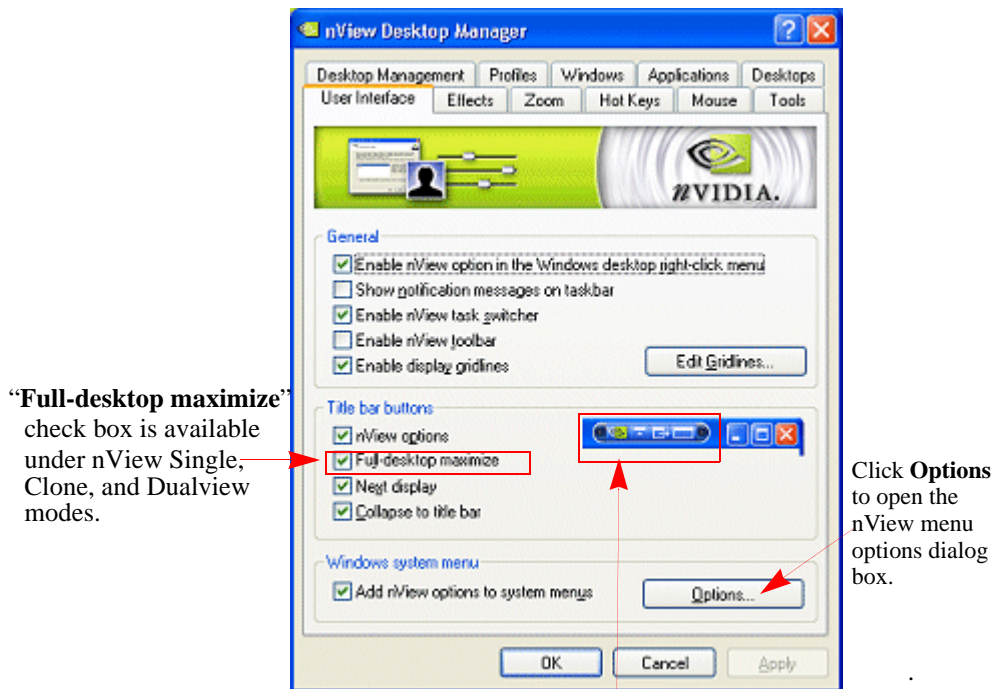
- Addition of button features to your Windows application title bars
- Availability of options on the nView options menu.

- How nView notifies you of changes in your desktop state
- How nView Desktop Manager is displayed on the Windows desktop

Accessing the User Interface Page

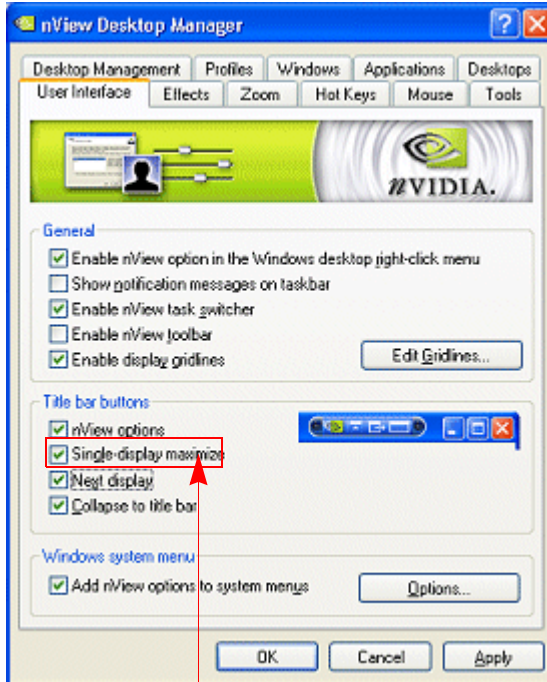
- 1 If you need help accessing the nView Desktop Manager control panel, see [“Accessing the nView Desktop Manager Control Panel”](#) on page 37.
- 2 Click the **User Interface** tab or menu option to display the nView Desktop Manager **User Interface** page (Figure 8.1).

Figure 8.1 User Interface Settings — nView Single, Clone, and Dualview Modes



These nView **buttons** appear on your application title bars, based on the corresponding check boxes that you have selected. Each button represents a selected check box.

Figure 8.2 User Interface Settings — nView Span Modes



“Single-display maximize” check box is available *only* under nView Span modes.

Enabling nView Options in the Windows Desktop Menu

The **Enable nView option in the Windows desktop right-click menu** check box controls whether the **nView Properties** and **nView Desktop** menu choices appear in your Windows desktop “right-click” menu.

- 1 To quickly access the nView Desktop Manager control panel and multi-desktops from your Windows desktop right-click menu, select the **Enable nView option in the Windows desktop right-click menu** check box.

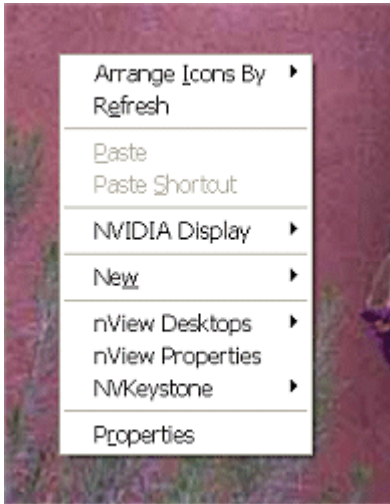
If you clear the **Enable nView option in the Windows desktop right-click menu** check box and click **Apply**, the nView Properties and nView Desktops entries are also cleared from the Windows desktop menu.

Note: It is recommended that you keep the **Enable nView option in the Windows desktop right-click menu** check box selected and not clear it.

2 Click **Apply**.

3 From your Windows desktop, right-click to display the desktop menu (Figure 8.3). Notice that **nView Properties** appears as an option on the menu.

Figure 8.3 **nView Properties** and **nView Desktops** as Options on the Desktop Menu



4 Click **nView Properties** to display the nView Desktop Manager control panel.

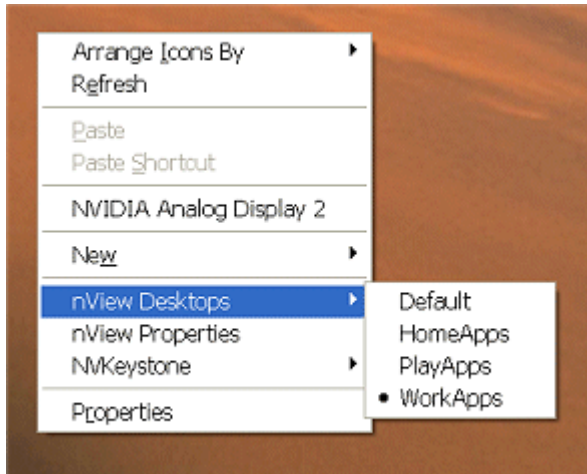
See “[Accessing Desktops from the Desktop Menu](#)” on page 109 to use the **nView Desktops** menu option.

Accessing Desktops from the Desktop Menu

The **nView Desktops** option appears on the desktop menu (Figure 8.3) *only* if you have created and enabled multiple desktops from the Desktops page.

Using the **nView Desktops** menu option, you can access both single-display desktops (Figure 8.7) and, if you have a multi-display setup, any “per-display” desktops you may have assigned, as shown in Figure 8.5.

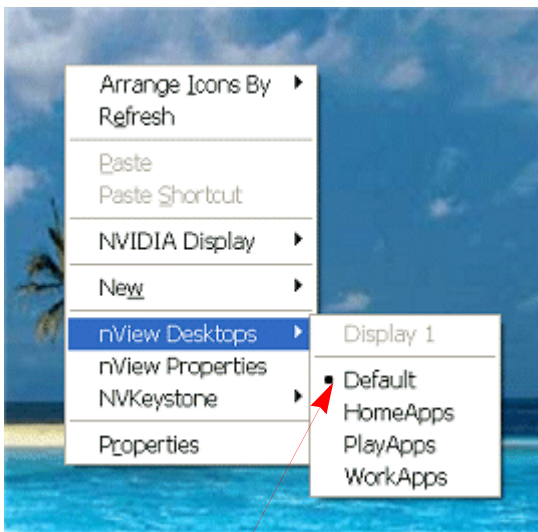
Figure 8.4 Using **nView Desktops** to Activate Desktops on a Single Display



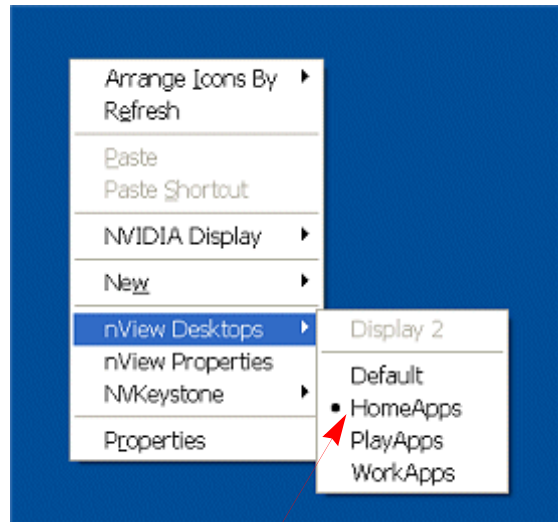
- 1 Before you can assign desktop to displays using the **nView Desktops** menu option, you must select the **Allow displays to show different desktops** check box on the Multiple Desktop Global Options dialog box. For details, see [“Allow Displays to Show Different Desktops”](#) on page 93.
 - 2 Then follow these steps to view and switch desktops per display:
 - 1 On any one of your displays, right click on the desktop to view the desktop menu.
 - 2 Click **nView Desktops**.

As shown in [Figure 8.5](#), the menu that appears contains the name of your display (as the first grayed item) and the desktops that you can activate on that display.
 - 3 To activate a desktop, simply click the desktop.
- Note:** Remember, to change any per-display desktop assignment for a specific display, repeat steps 1 through 3 on *each* display.

Figure 8.5 Using **nView Desktops** to Activate Desktops Per Display in a Multi-Display Setup



“Default” desktop is active on “Display 1”

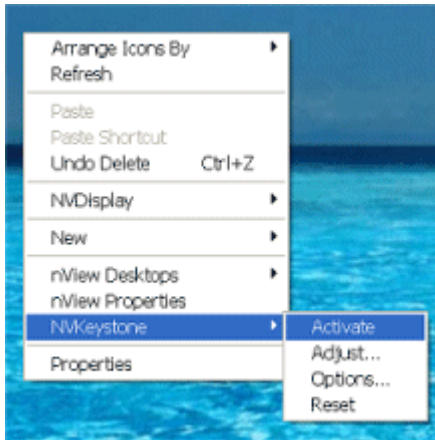


“HomeApps” desktop is active on “Display 2”

Accessing NVKeystone Options From the Desktop Menu

The **NVKeystone** menu option appears *only* if you selected both NVKeystone-based check boxes on the Tools page. See [“Using Tools Options” on page 188](#) for details. You can use the **NVKeystone** menu option (Figure 8.6) to quickly access NVKeystone features explained in [“About NVKeystone” on page 189](#).

Figure 8.6 Using the NVKeystone Option From the Windows Desktop Menu



Showing Notification Messages on the Windows Taskbar

When the **Show notification messages on taskbar** check box is selected, a balloon help notification message appears on the taskbar whenever there is a major change in the nView desktop state.

For example, transparent windows are not compatible with Direct3D applications and must be disabled when a Direct3D application starts. With this check box selected, if a Direct3D application starts and nView Desktop Manager must disable transparency, a message appears on your taskbar to inform you of this change.

Enabling the nView Task Switcher

When this option is enabled, nView enhances the standard Windows application task switcher functionality.

By default, you can access this enhanced “task switcher” functionality through a **Alt-~** keystroke combination, which you can change through options in the Hot Keys page. (See “Using Hot Keys” on page 171.)

The nView Desktop Manager task switcher performs the following functions:

- Indicates the desktop on which your selected application is located
- Allows you to switch among desktops
- Allows you to switch among applications on a specific desktop

Enable nView Toolbar

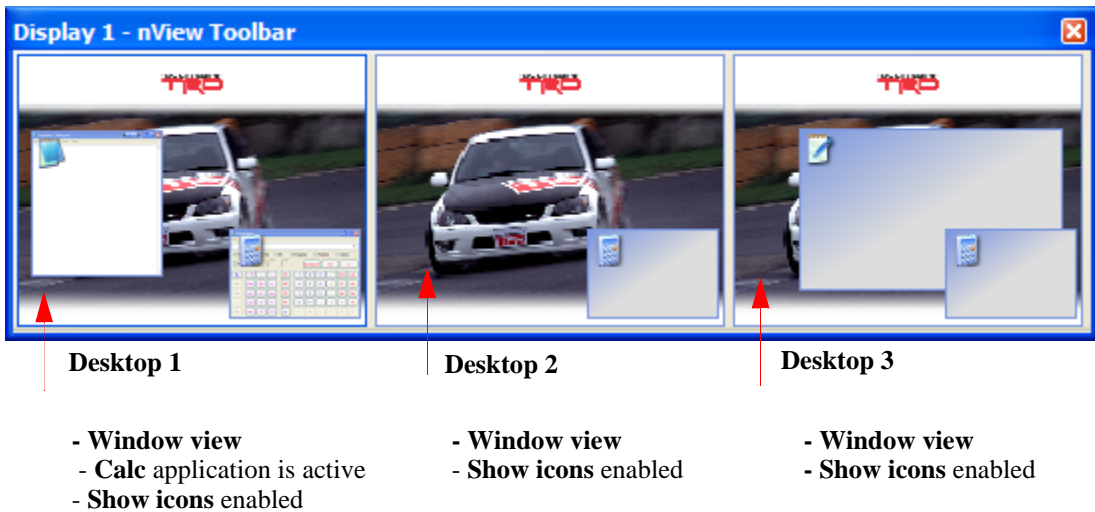
The nView Desktop Manager toolbar lets you place commonly used nView Desktop Manager **Hot Key Actions**, **Profiles**, **Desktops**, and **Zoom** features on a dockable toolbar. As an alternative to using the Desktop Manager control panel, you can use the nView toolbar to quickly access these features with a single click of a button.

Note: If you are using a Quadro GPU-based graphics card, a new component of the nView toolbar lets you enable a display-based toolbar. See the next section, [“Using the New Display Toolbar”](#) on page 113.

Using the New Display Toolbar

If you are using a **Quadro GPU-based graphics card**, the current ForceWare graphics driver includes a new nView toolbar component called “display toolbar.” By enabling this option, you can view “thumbnail” representations of your desktop on each display in a “single display toolbar” as shown in the example in [Figure 8.7](#).

Figure 8.7 nView Display 1 (of 2) Toolbar Showing **Window View** with **Show Icons** Enabled



To enable the display-based nView toolbar, follow these steps:

- 1 Make sure your computer is installed with an NVIDIA Quadro GPU-based graphics card, you are running Windows XP in a multi-display configuration (i.e., you have at least two display connected to your computer), and you have the most current NVIDIA graphics driver installed.
- 2 Set the **Dualview** display setting from the NVIDIA Control Panel.
- 3 Open the nView Desktop Manager **Desktops** page. (See [“Managing Desktops” on page 80](#) if you need additional help.)
- 4 Select the **Enable multiple desktops** check box and click **Apply**. (See [“Multiple Desktop Global Options” on page 90](#) if you need additional help.)
- 5 Click **Options** to display the Multiple Desktops Global Options dialog box.
- 6 Select the **Allow displays to show different desktops** check box and click **Apply**.
- 7 Click the **User Interface** menu option or tab to open the page.
- 8 Click **Enable nView toolbar** and click **Apply** to display the nView toolbar on your desktop.

- To close the toolbar, right-click on the nView toolbar title bar and click **Close** or click the “x” button on the right corner of the nView toolbar window.
- When you close the nView toolbar, notice that the **Enable nView toolbar** option in the User Interface page is disabled, i.e, cleared of its check mark.
- To re-enable the toolbar, you have to repeat steps 6. and 7.

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.

- 1 Click the title bar of the open nView toolbar on your desktop.
- 2 From the menu that appears, select **Toolbars > Show Display Toolbars** (Figure 8.8).

Figure 8.8 nView Toolbar Components — **Show Display Toolbars** Enabled.

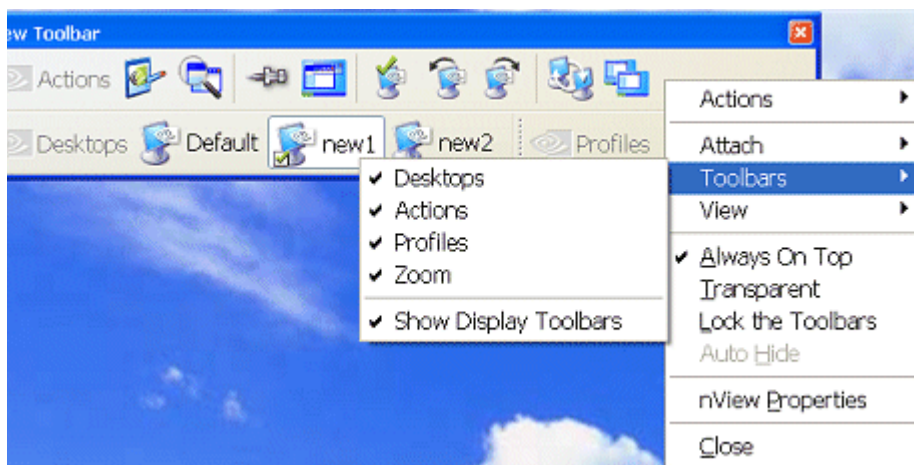


Figure 8.7 shown earlier is a sample display toolbar. Notice that each window on this “display toolbar” contains a “thumbnail” representation of a desktop on one of your displays. Each of your active displays will contain this toolbar labeled by the display number (Display 1 or Display 2 or Display 3, depending on the number of active displays). Figure 8.7 shows a Display 1 labeled toolbar.

Note: If you rest your mouse directory on each thumbnail window that represents your desktop, a “tool tip” appears that contains your desktop name.

- 3 To select different views of the desktop thumbnails that appear on your display toolbar, right click directly on the thumbnail desktop image (not the title bar of the display toolbar). A context menu of options appears, as shown in Figure 8.9.

Figure 8.9 nView Display 2 (of 2) Toolbar Showing Context Menu for Desktop Thumbnail Windows.

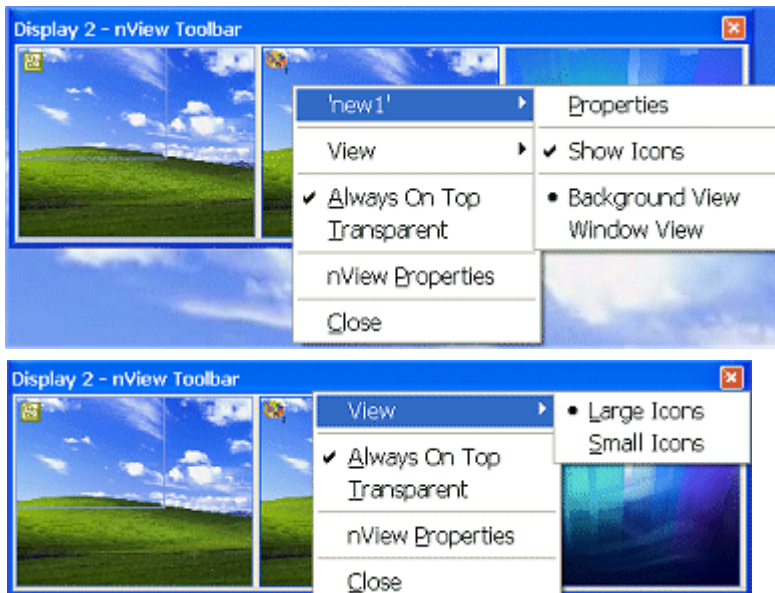
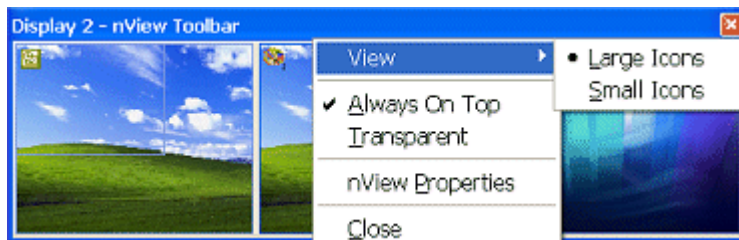


Figure 8.10 nView Toolbar Components — **Show Display Toolbars** *Enabled*.



- **Show icons** toggles (showing/hiding) the application *icons* in all thumbnail views. The examples in [Figure 8.7](#) and [Figure 8.11](#) through [Figure 8.14](#) show both enabled and hidden application icons in desktop thumbnails.
- **Background view** is useful if you want to associate your desktops with backgrounds. This option renders only the frames of open application windows so that the backgrounds of these applications are always visible. Examples are shown in [Figure 8.11](#) and [Figure 8.12](#).

Figure 8.11 nView Display 2 (of 2) Toolbar Showing **Background View** with **Show Icons Enabled**

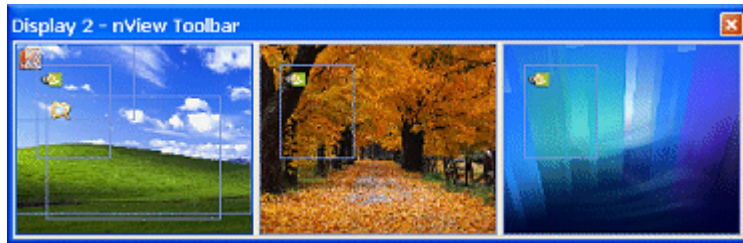


Figure 8.12 nView Display 2 (of 2) Toolbar Showing **Background View** with **Show Icons Hidden**



- **Window view** is useful if you want to see as close a representation as possible of your desktop applications. You can see screenshots of application on your current display thumbnail as well as shaded versions of application windows on other display thumbnails. The sample thumbnail desktops in [Figure 8.7](#) are in this view. The examples in [Figure 8.13](#) and [Figure 8.14](#) are also in this view.

Figure 8.13 nView Display 2 (of 2) Toolbar Showing **Window View** with **Show Icons Hidden**



Figure 8.14 nView Display 2 (of 2) Toolbar Showing **Window View** with **Show Icons Enabled**



- 4 To access a “thumbnail menu” for each of your desktops, left click on the thumbnail desktop image.
 - The first item on the menu is **Activate <<desktop name>>**. If you click this item, the desktop is activated on that display.
 - If the menu also contains a list of applications that are visible on that display, click an application to activate it.

Enabling and Using the nView Toolbar

To enable and use the nView toolbar, follow these steps:

- 1 From the User Interface page, click **Enable nView toolbar**.
- 2 Click **Apply** to display the nView toolbar on your desktop.
- 3 To close the toolbar, right-click on the nView toolbar title bar and click **Close** or click the “x” button on the right corner of the nView toolbar window.

When you close the nView toolbar, notice that the **Enable nView toolbar** option in the User Interface page is disabled, i.e, cleared of its check mark.

- 4 To re-enable the toolbar, you have to repeat steps 1. and 2.

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.

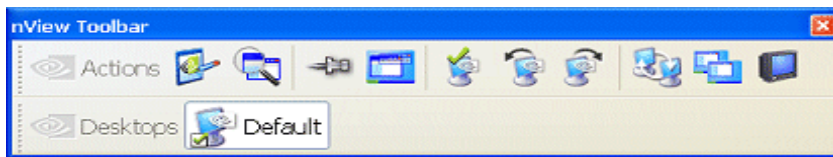
Enabling and Disabling Actions, Profiles, Desktop, and Zoom Settings

You can toggle between enabling and disabling the nView toolbar band for any of these nView Desktop Manager components:

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

Figure 8.15 shows two (Desktops and Actions) of the three nView Desktop Manager components enabled.

Figure 8.15 nView Toolbar — Actions and Desktops Components *Enabled*.



Enabling Profiles

To enable the Profiles component, follow these steps:

- 1 Right-click on the toolbar to display the context menu.
- 2 Select the **Profiles** “unchecked” component to enable (check) it. Notice that the Profiles component is added to the nView toolbar (Figure 8.16).
- 3 You can also remove any of the enabled bands by using steps 1 and 2 to disable (uncheck) the enabled component.

Enabling Zoom

To enable the Zoom component, for example, follow these steps:

- 1 Right-click on the toolbar to display the context menu.
- 2 Select the Zoom “unchecked” component to enable (check) it.

Notice that the Zoom component is added to the nView toolbar (Figure 8.18).

Figure 8.16 nView Toolbar — Profiles Component *Enabled*

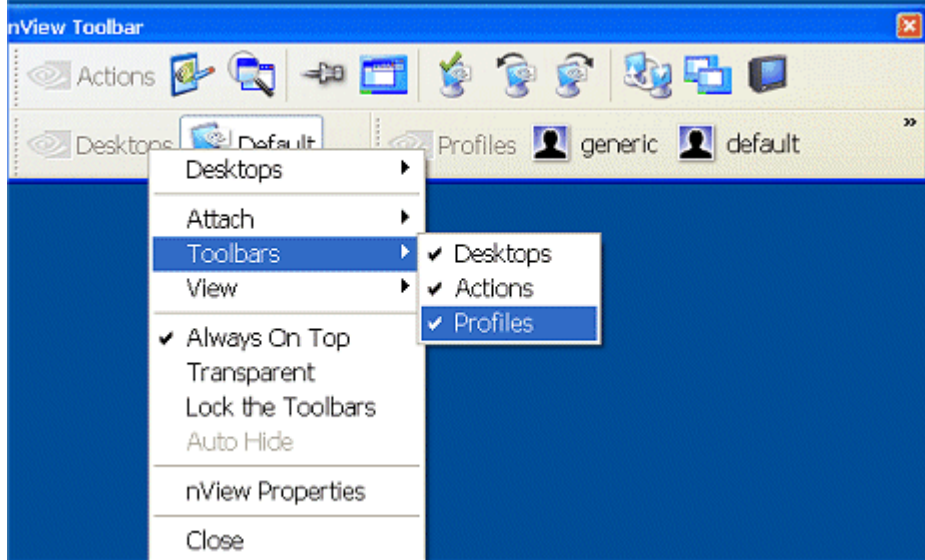
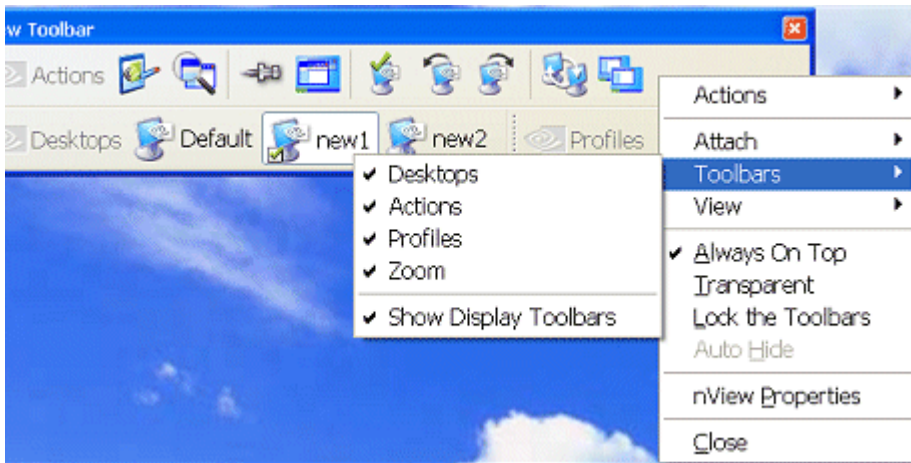


Figure 8.17 nView Toolbar Components — *Zoom Enabled*.



- 3 You can also remove any of the enabled bands by using steps 1 and 2 to disable (uncheck) the enabled component.
- 4 To quickly access the Zoom menu, right click the **Zoom** component from the nView tool bar and select Zoom, as shown in [Figure 8.18](#).

Figure 8.18 nView Toolbar — Zoom Menu



Viewing the Descriptions of nView Toolbar Buttons

To view any of the descriptions of the **Actions**, **Desktops**, or **Profiles** buttons on the nView toolbar, simply rest your mouse cursor on the button until the “tool tip” text description appears (Figure 8.19). Tool tip text can also include additional information such as the target application for “Toggle always on top” or “Toggle transparency” actions. You can also control text and title options for the **Actions**, **Desktops**, and **Profiles** nView toolbar buttons.

- 1 Right-click the nView toolbar, click **Actions**, **Desktops**, or **Profiles**, depending where you are clicking.
- 2 Select **Show title** and/or **Show text**.

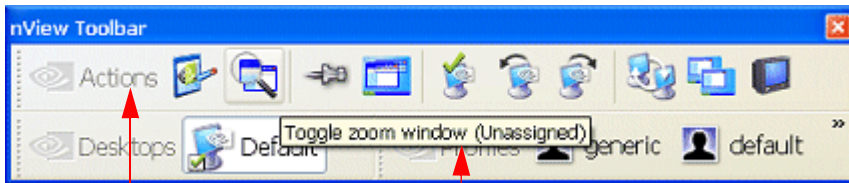
Figure 8.19 shows several views of enabled and disabled “Show Text” and “Show Title” options. It also shows a “tool tip” example.

Removing, Adding, and Arranging Actions

You can add, remove, and arrange the actions that appear on the Actions component of the nView toolbar.

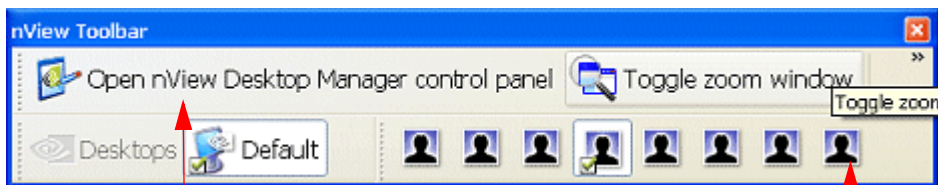
- 1 From the nView toolbar, right-click the **Actions** component to display its context menu.
- 2 Click **Customize** (Figure 8.20) to display the **Customize Toolbar** dialog box (Figure 8.21).

Figure 8.19 nView Toolbar — “Show Title” and “Show Text” Options



Actions menu with “Show Title” *enabled* and “Show Text” *disabled*

Example of “**tool tip**” text



Actions menu with “Show Title” *disabled* and “Show Text” *enabled*

Profiles menu with “Show Title” and “Show Text” *disabled*

Figure 8.20 nView Toolbar — “Customize” Option from the Actions Context Menu

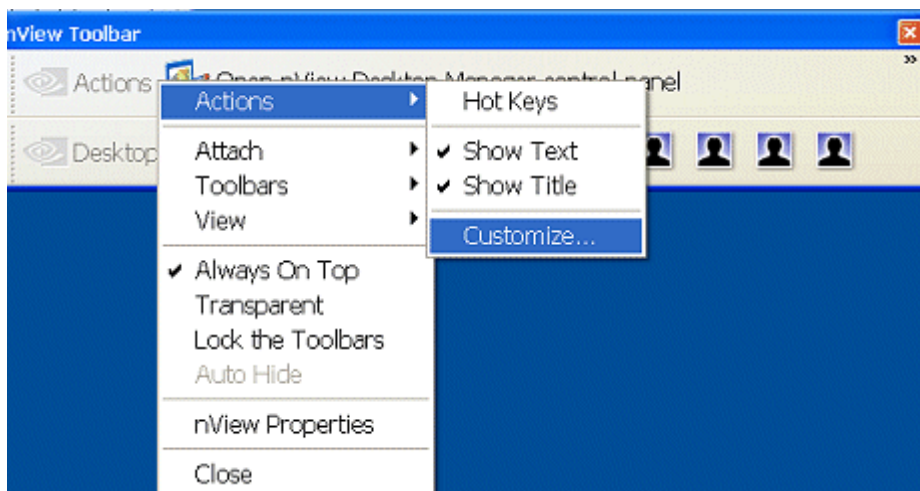


Figure 8.21 nView Toolbar — Customize Toolbar Dialog Box



- 3 For details on how to use the Customize Toolbar dialog box, press **F1** to display Windows context Help.

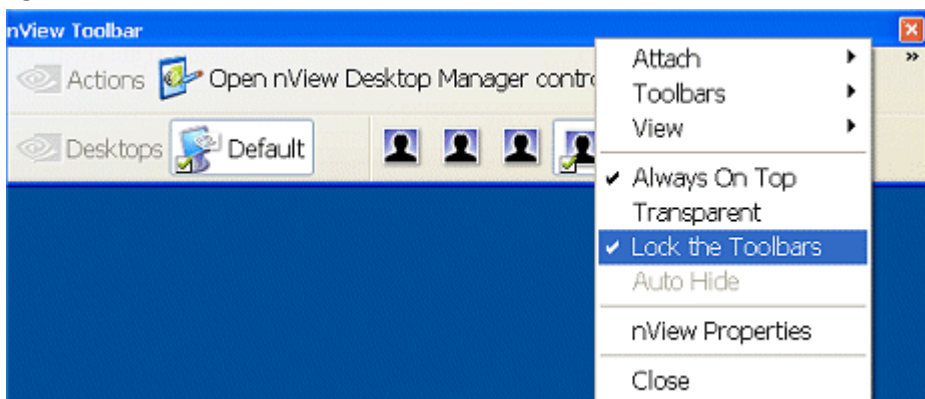
Locking and Unlocking the nView Toolbar Components

Note: When you lock the nView toolbar components into position, they cannot be moved or rearranged inside the nView toolbar frame.

To lock the nView toolbar components (i.e., the **Profiles**, **Desktop**, and/or **Actions** bars, depending on what is displayed on your nView toolbar) into position, follow these steps:

- 1 Right-click the nView toolbar and click **Lock the Toolbars** (Figure 8.22).

Figure 8.22 nView Toolbar — “Lock the Toolbars” Enabled



- 2 To disable the option, click **Lock the Toolbars** again to clear the check mark.
- 3 You can now drag any of the nView toolbar component bars (i.e., the Profiles, Desktop, and/or Actions bars, depending on what is displayed on your nView toolbar) to a different area within the nView toolbar frame.

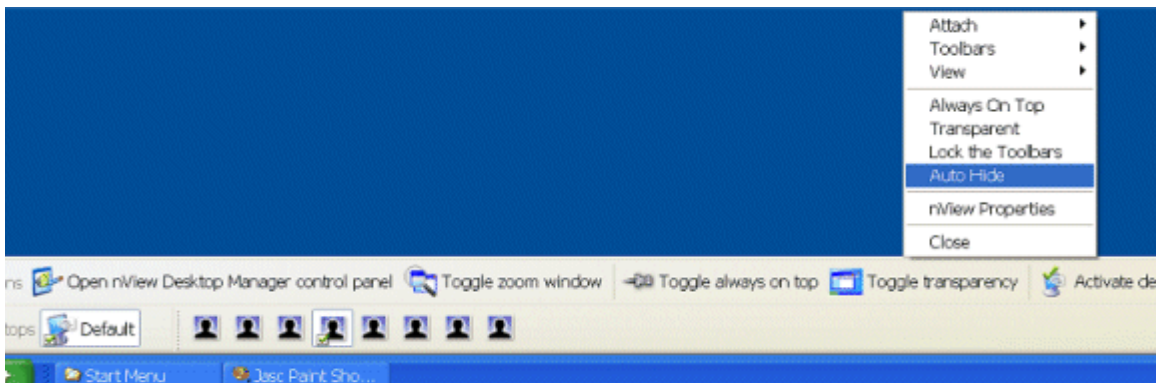
Docking and Undocking the nView Toolbar

You can “dock” and “undock” your nView toolbar by choosing, respectively, to “attach” or “detach” the toolbar to/from the top, bottom, left, or right edges of your Windows desktop. If you have a multi-display setup and want to dock your nView toolbar, you can move the nView toolbar to a different display.

- 1 Right-click the nView toolbar and then click **Attach** (Figure 9.10.).
- 2 From the context menu, choose any one of these tasks:
 - Select **Top**, **Bottom**, **Left**, or **Right** if your nView toolbar is not yet docked and you want to dock it to one of these edges of your desktop.
 - Select **Detach** to “undock” your nView toolbar from one of the docked positions.
 - Select a **Display** choice if you have a multiple-display setup and want to move your nView toolbar to a specified display.

Figure 8.23 shows an nView toolbar docked to the “Bottom” edge of a Windows desktop.

Figure 8.23 nView Toolbar — Docked to the “Bottom” of the Windows Desktop



Auto-Hiding the nView Toolbar

Note: The nView toolbar must be attached in order to access the **Auto-Hide** option. You cannot access the Auto-Hide option if your nView toolbar is detached.

- 1 To hide the nView toolbar, right-click the nView toolbar and click **Auto-Hide** from the context menu (Figure 8.23).
- 2 To re-display the taskbar, point to the area of your screen where the nView toolbar is located.

Note: If you want to be sure that the nView toolbar will be visible whenever you point to it, select the **Always on top** of other windows check box (see [Keeping the nView Toolbar on Top of Other Windows](#)) and also select the **Auto-hide** the taskbar check box.

Keeping the nView Toolbar on Top of Other Windows

Right-click the nView toolbar and click **Always on Top** from the context menu if you want to ensure that the nView toolbar is always visible, even when you run a program in a maximized (full screen) window.

Enabling and Using Display Gridlines

When you enable the **Enable gridlines** option (Figure 9.11) from the User Interface page, you can define grids on each of your displays. The grids function as sub-monitors for repositioning and maximizing dialog boxes.

- Under **NVIDIA GeForce**-based graphics cards, you can define up to four **(4)** grids.
- Under **NVIDIA Quadro**-based graphics cards, you can define up to nine **(9)** grids.

Follow these steps to create grid lines:

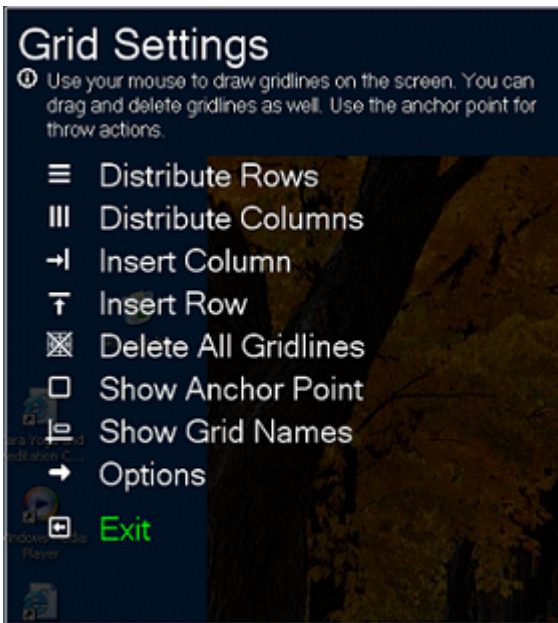
- 1 From the User Interface page, select the **Enable display gridlines** check box and click **Apply**.
- 2 Then click **Edit Gridlines**. The Edit Display Gridlines dialog box appears (Figure 8.24).
- 3 Click the list and select the display on which you want to set up your gridlines. Then click **OK**.

The Grid Settings screen appears over the darkened desktop (Figure 8.25).

Figure 8.24 Edit Display Gridlines.



Figure 8.25 Grid Settings — Main Menu.



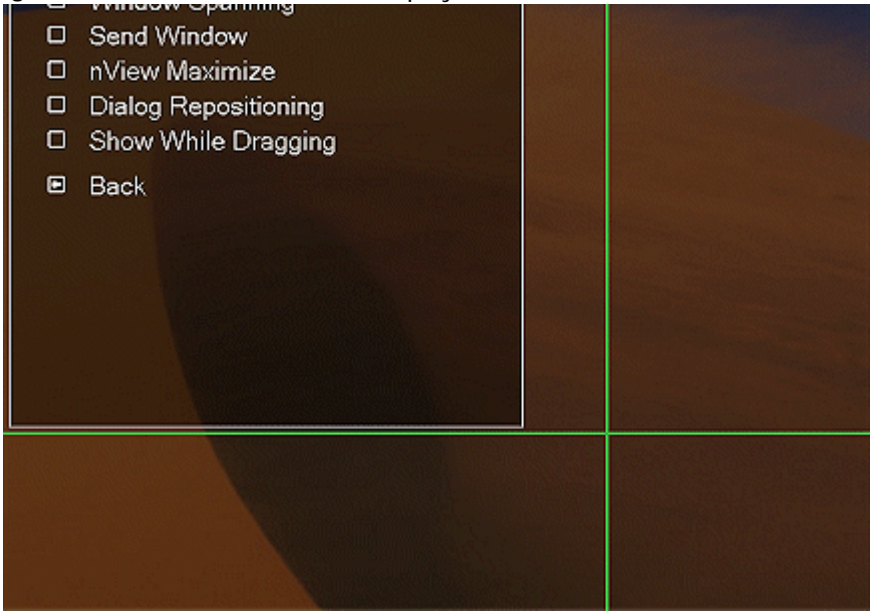
- 4 To create a grid line on the darkened desktop, simply click on a point where you want the line to appear and drag vertically or horizontally, depending on whether you want a horizontal or vertical line. Release the mouse and the line is drawn automatically.

Figure 8.26 shows a desktop with gridlines used to create sub-display regions.

Note: You can create from two (2) to a maximum of nine (9) such sub-display regions when using Quadro GPU-based graphics cards, or up to nine (9) such regions when using GeForce GPU-based graphics cards.

- 5 Use the Grid Settings main menu options to create and work with gridlines.

Figure 8.26 Gridlines Drawn and Displayed



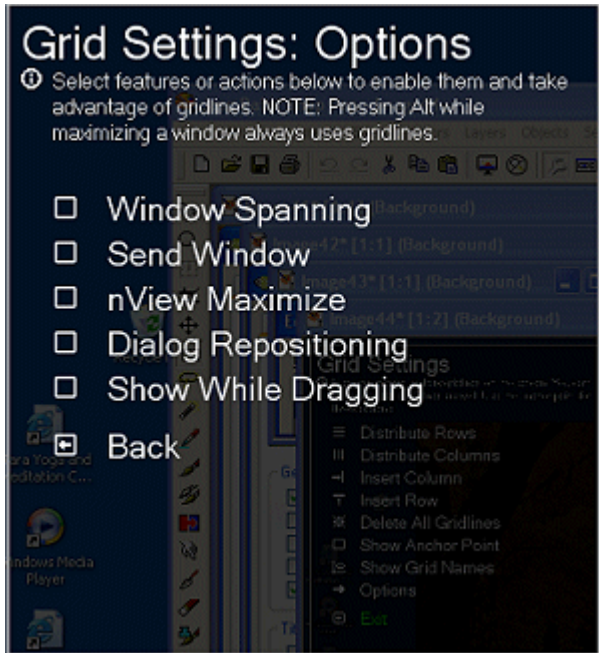
6 To display the grid number, click **Show Grid Names** from the Grid Settings main menu. Figure 8.27 shows grid numbers displayed.

Figure 8.27 Grid Names Displayed



- 7 Use the Grid Settings main menu options to create and work with gridlines.
- 8 To set up other grid controls, click **Options**. The **Grid Settings: Options** menu appears (Figure 8.28).

Figure 8.28 Grid Settings — Options Menu



- 9 Click **Back** when done to return to the previous screen — the Grid Settings main menu.
- 10 Click **Exit** to return to the desktop.

Adding 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).

Note: An image of each button you add appears on the sample button bar on the User Interface page.

nView Options

When you select the **nView options** check box (Figure 8.1), an nView Desktop Manager options menu button is added to every application window title bar.

For addition details, see [“Enabling the “nView Options” Title Bar Button”](#) on page 134.

Full-Desktop Maximize

Note: This option is displayed if you are in **nView single display, Dualview, or Clone mode** (Figure 8.1).

Click the “full-desktop maximize” button on application window title bars to toggle between a custom maximized state (the application window maximizes to the full desktop) and a restored state.

To add this button to application title bars, select the **Full desktop maximize** check box and click **Apply**.

The nView full-desktop maximize button (button shown in Figure 8.1 and Figure 8.29 below) is added to title bars on all application windows.

Figure 8.29 nView Title Bar Button: “Full Desktop/Single-Display Maximize”

Full-desktop (single-display) maximize button



Single-Display Maximize

Note: The **Single-display maximize** check box is displayed if you are in nView Span (Horizontal or Vertical) mode under Windows 2000/XP ([Figure 8.1](#)).

Click the “single-display maximize” button on application window title bars to toggle between a custom maximized state (the application window maximizes to the entire screen of the display device on which the application is located) and a restored state.

To add this button to application title bars, select the **Single-display maximize** check box and click **Apply**.

The nView **single-display maximize button** shown in [Figure 8.1](#) and [Figure 8.29](#) previously) is added to title bars on all application windows.

Next Display

Click the **Next display** nView title bar button to move the application window to the next display.

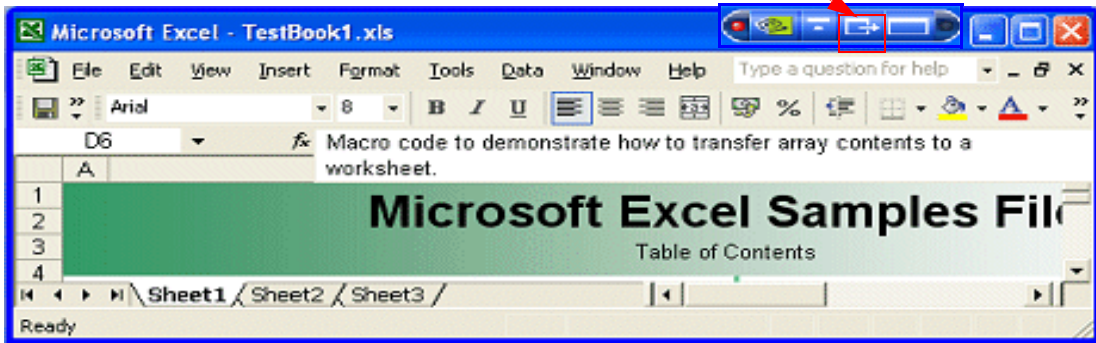
Follow these steps to add the Next display button to your application window title bars.

- 1 From the User Interface page, enable the **Next display** check box.
- 2 Click **Apply**.

The “next display” button is added to the nView title bar button, as shown in [Figure 8.29](#).

Figure 8.30 nView Title Bar Button — “Next Display”

Click this “**next display**” button to move the application window to your next display device.



Collapse to Title Bar

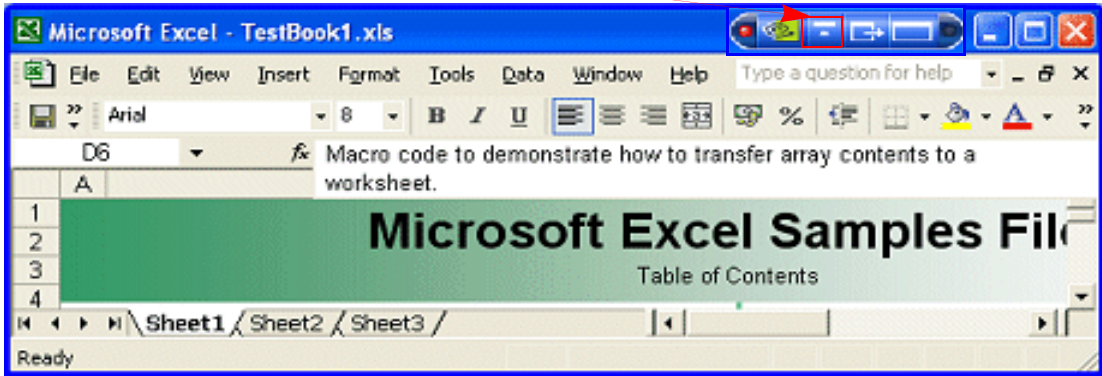
Click the “collapse to title bar” button on application window title bars to toggle between shrinking the application window to just its title bar (or the smallest size possible for the window) *and* restoring the window to its former size.

To add this button to application title bars, follow these steps:

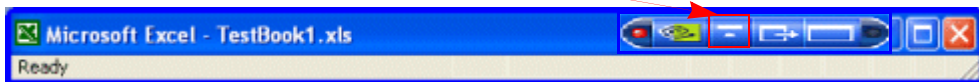
- 1 Select the **Collapse to title bar** check box and click **Apply** to enable the option (Figure 8.1).
The nView “collapse to title bar” button (shown in Figure 8.1 and Figure 8.31) is added to the title bars on all application windows.
- 2 When you click the “collapse to title bar” button (shown in Figure 8.32), the application window shrinks in size to just its title bar (or the smallest size possible for the window) as shown in Figure 8.31.
- 3 When you click the button again, the window is restored to its former size, also shown in Figure 8.31.

Figure 8.31 nView Title Bar Button: “Collapse to Title Bar”

1) Click the “Collapse to title bar” button to shrink the application window to only its title bar, as shown in the image below.



2) On the collapsed title bar, click the same button *again* to restore the application window to its original size, as shown in the above image.



About the Title Bar Buttons LED Status Indicators

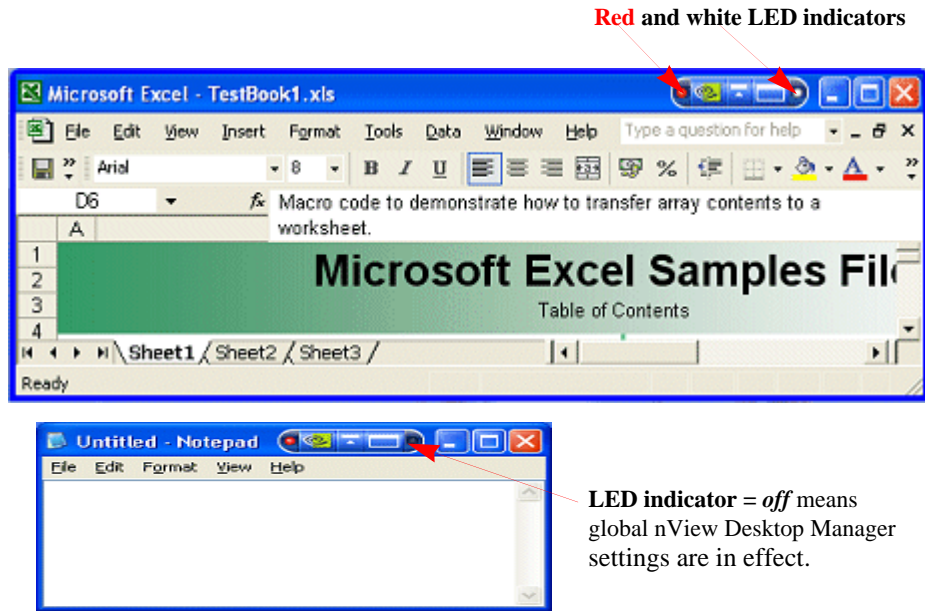
In addition to allowing quick access to controls, the nView button bar also provides status LEDs on each side.

- 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 8.32), 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...**”.

- On the right side of the nView button bar is a **LED** that is either *off* or *white* (shown in Figure 8.32).
 - When **LED is off**, the window uses *global nView settings*.
 - When **LED is white**, the application has *individual (application) settings* defined for it.

Figure 8.32 nView Title Bar Button: LED Indicator



Accessing nView Menu Options

Using the nView options menu, you can quickly and easily access nView Desktop Manager features from any application. The nView menu options are described in “nView Menu Options: Description” on page 137.

You can also access nView application-specific options from the nView options menu. For example, with certain applications such as Internet Explorer (minimum version 6.0), you can create links between two Internet Explorer windows.

There are two basic ways you can access nView menu options from your application — you can enable one or more of these methods at any given time.

- You can enable the nView options menu title bar button and then click the button to open the nView options menu. For details, see “Enabling the “nView Options” Title Bar Button” on page 134.
- Another way to access the same nView options menu is by adding the menu item “nView Options” to an application’s system menu. Every window has a “system

menu” for basic tasks such as moving or resizing the window. For details, see “Adding “nView Options” to Application System Menus” on page 134.

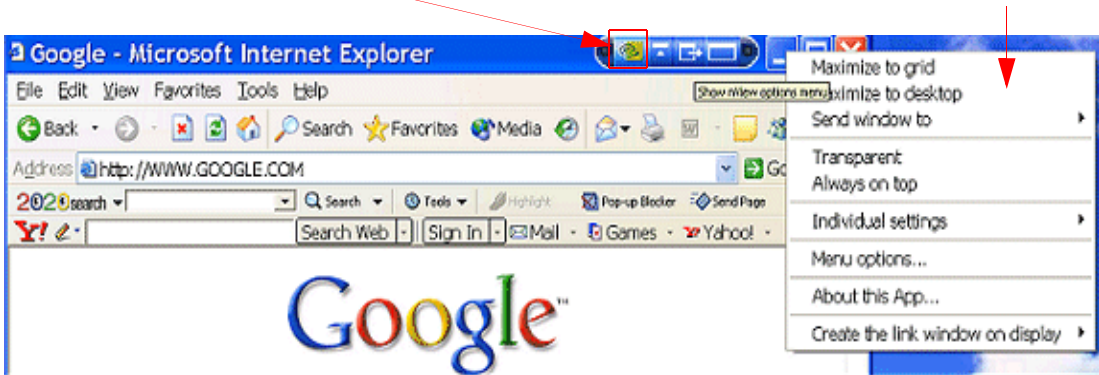
Enabling the “nView Options” Title Bar Button

- 1 To access the “nView options” title bar button on application windows, first select the **nView options** check box and click **Apply** (Figure 8.1).

An nView Desktop Manager options menu button is added to every application window’s title bar — an example is shown in Figure 8.33.

Figure 8.33 nView Title Bar Button — **nView Options**

Click the **nView options menu button** from the application’s title bar to display the **nView options menu**.



- 2 Now you can click the green nView options menu button from the application’s title bar to display the nView options menu (Figure 8.33).

Adding “nView Options” to Application System Menus

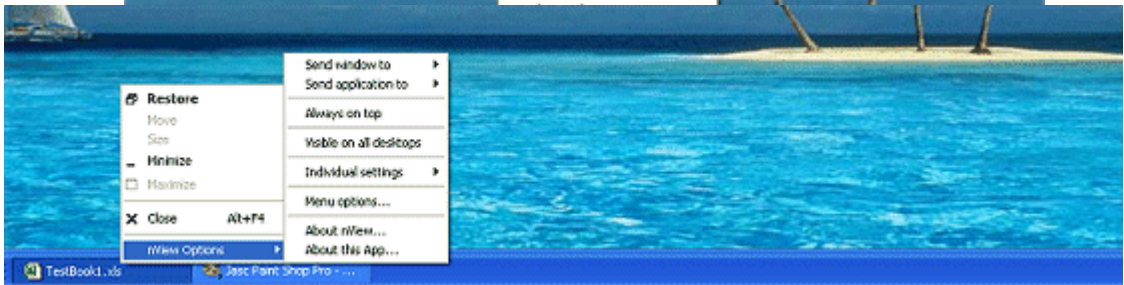
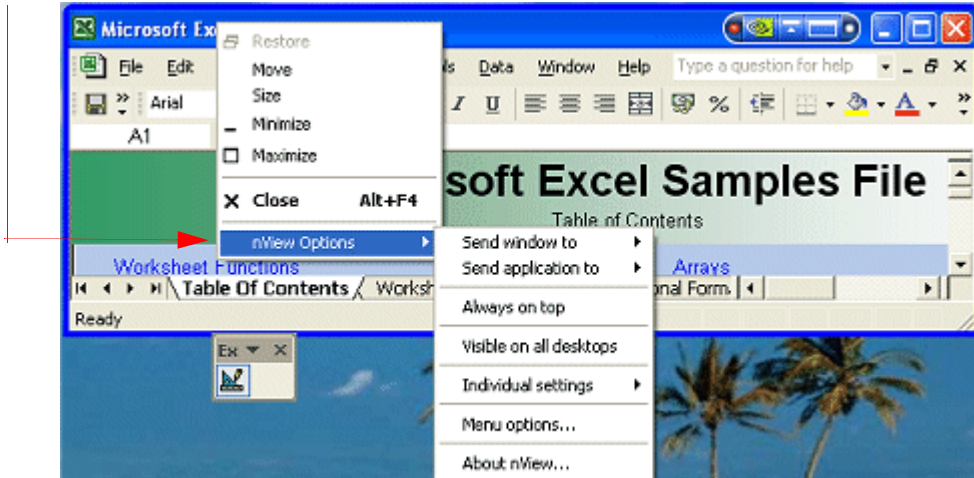
Another way to access the same nView options menu is by adding the menu item “nView Options” to an application’s system menu. Follow these steps to do so:

- 1 From the User Interface page, select the check box **Add nView options to system menus** and click **Apply**.
- 2 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 (Figure 8.34) or right click the "minimized" application icon in the Windows taskbar and click the **nView options** menu item (Figure 8.34).

Figure 8.34 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.

Customizing nView Menu Options

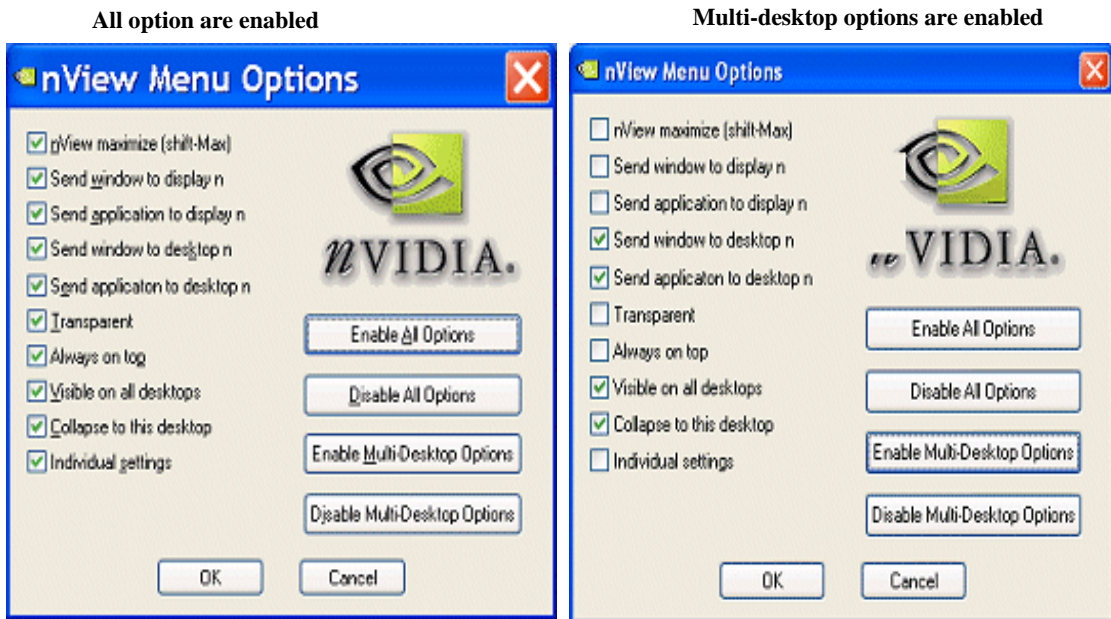
nView Desktop Manager can perform a variety of operations on windows in the system. You can access this functionality through an **nView Options** menu, as explained in the earlier sections.

Figure 8.35 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.

The options that appear in this dialog box correspond to those available from the nView options menu available from your application title bars and system menus, as shown previously in Figure 8.33 and Figure 8.34 examples.

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 menu for that application.

Figure 8.35 nView Menu Options Dialog Box



Note: For detailed descriptions of each of these options, see “Customizing nView Menu Options” on page 135.

- 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 Options: Description

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 8.35).

nView Maximize

This option performs the same action as the nView max/restore title bar button, as explained in “Full-Desktop Maximize” on page 129 and “Single-Display Maximize” on page 130.

Send window to. . .

- **Display *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 This Desktop

Enabling “**Collapse to desktop**” moves the active application window to the current desktop.

Individual Settings

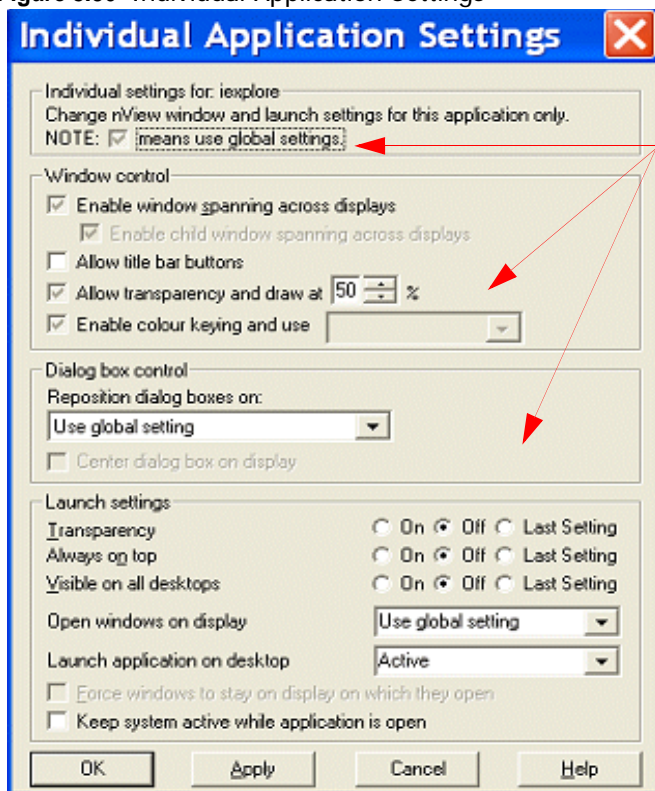
Note: If you are an advanced user, you can further customize applications and also configure individual settings from the **Applications** page. For further details, see “[Managing Applications: For Advanced Users](#)” on page 195.

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 “[Customizing nView Menu Options](#)” on page 135 and shown in [Figure 8.35](#).

- **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.

The Individual Application Settings dialog box appears ([Figure 8.36](#)).

Figure 8.36 Individual Application Settings



Click any of these settings to toggle between “global,” “enabled,” and “disabled” states.

From this dialog box, you can set up both *individual* as well as *launch* settings for the application.

Individual Applications Settings

Use this dialog box to customize window, dialog box, and launch settings for a specific application.

Several nView Desktop Manager options are represented by a check box, which can be in one of three states, as described below. Click the check box to toggle among the three states. Click **Apply** for a specific state to take effect.

- **Global** state — In the first group box, the check box that appears in the sentence “Note: ___ means use global settings.” contains a “global” marker, which can be a “gray” check mark (Figure 8.36), a solid colored square (Figure 8.37), or other indicator, depending on your application. If you want a particular check box-based option to use the standard nView Desktop Manager “global” setting (as entered in one of the nView Desktop Manager control panel pages), then click the check box until the global marker appears.
- **Disable** — In the first group box, the sentence changes to “NOTE: ___ means disable for this application.” when you click the check box to clear it (Figure 8.37). To “disable” another check box-based option for the application, click the check box until it is cleared.
- **Enable** — In the first group box, the sentence changes to “NOTE: ___ means enable for this application.” when you click the check box until a solid black check mark appears (Figure 8.37). To “enable” another check box-based option for the application, click the check box until a solid black check mark appears.

Enable Window Spanning

For details on functionality, see “Enabling Window Spanning Across Multiple Displays” on page 75.

Allow Title Bar Buttons

For details on functionality, see “Enabling nView Options in the Windows Desktop Menu” on page 108.

Allow Transparency and Draw at n%

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.

Enable Color Keying and Use

For details on functionality, see [“Windows Color Keying” on page 150](#).

Reposition Dialog Boxes

For details on functionality, see relevant sections in [“Managing Windows” on page 73](#).

Launch Settings

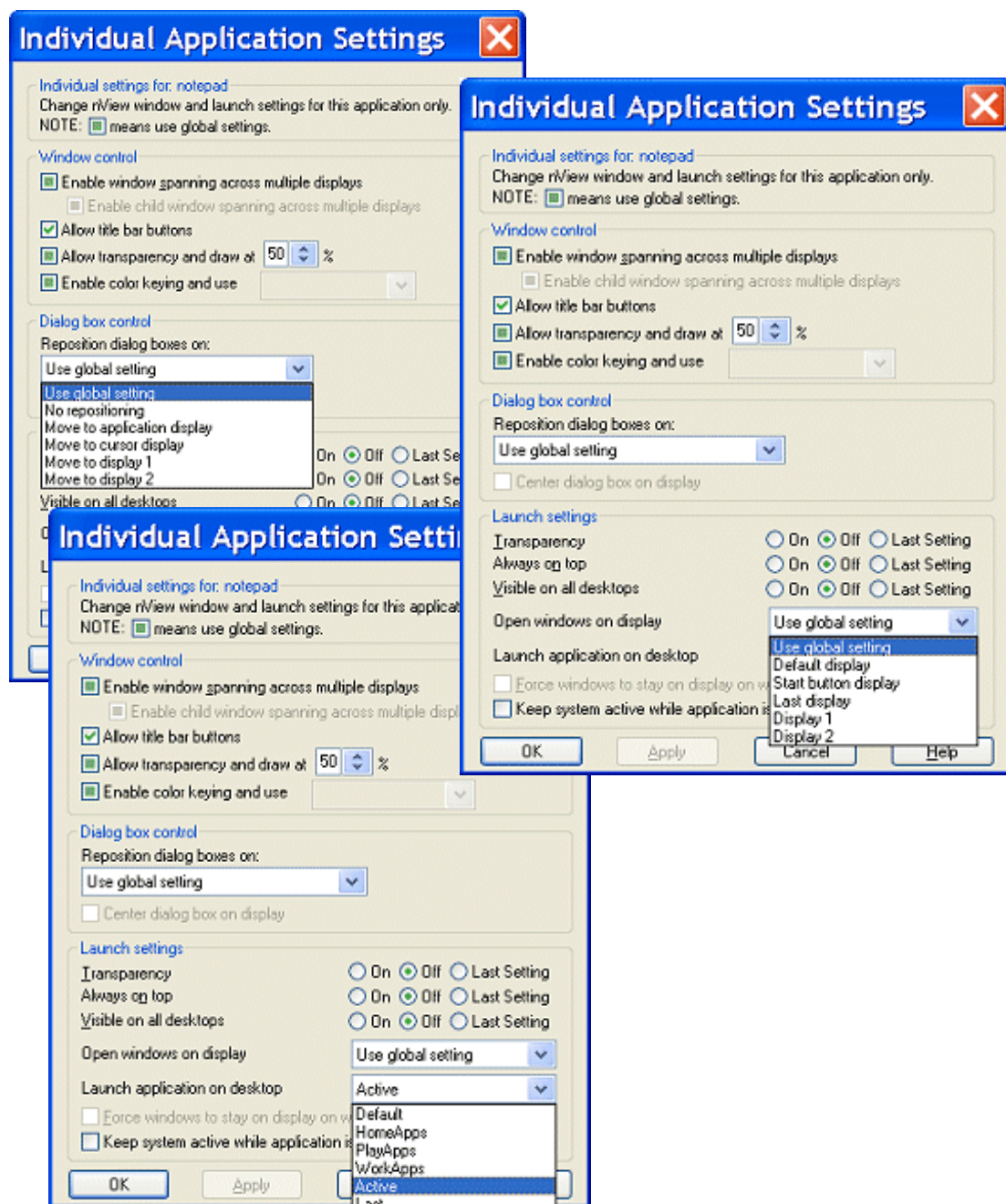
Launch settings control the state of the application when it is started. By default, the setting is *Off*. The **Transparency**, **Always on top**, and **Visible on all desktops** can have one of three settings:

- **On** To force a setting to be *on* when starting the application, select **On**.
- **Off** means that the feature is always disabled when this application starts.
- **Last Setting** To save a window setting when you close the application and then restore the setting when you restart the application, select **Last Setting**.
- **Open windows on display**. For details, see [“Open Windows On Display” on page 76](#).
- **Launch application on desktop** lets you specify a desktop on which to always start the application.

Click the list to specify a desktop where you always want to start the application.

- If you select **Active**, the application *always* starts on your currently active desktop.
- If you select **Default**, the application *always* starts on the desktop labeled Default.
- If you select **Last**, the application *always* starts on the *last* desktop on which it was closed. The *last* desktop is the desktop on which the application was located when it was closed

Figure 8.37 Individual Application Settings — Dialog Box and Launch Settings

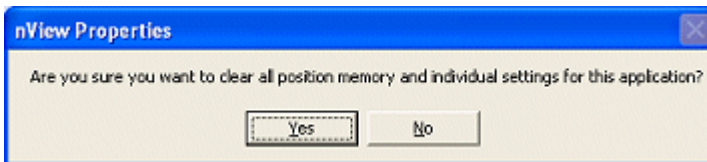


- If you select a specific named desktop, the application *always* starts on that desktop and you are automatically switched to that desktop.
- **Force window to stay on display on which they open** — To force your application windows to always stay on this particular display, first select a numbered display from the “**Open windows on display**” list, and then select this check box.
- **Keep system active while application is open** — When selected, this option prevents screen savers and stand-by or other power schemes from activating while the application is open. For example, if you are giving a presentation using Microsoft Excel and you do not want the screen saver to appear during the presentation, you can specify the use of this setting with Excel.

Individual Settings: Clear all

Clear all displays the message in [Figure 8.38](#).

Figure 8.38 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**.

Other Methods of Clearing Individual Settings

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 control panel Application page. (See “[Managing Applications: For Advanced Users](#)” on page 195.)

Menu Options

When you select **Menu Options**, the nView Menu Options dialog box (Figure 8.35) opens.

See “Customizing nView Menu Options” on page 135 and “nView Menu Options: Description” on page 137 for details.

About this Application ...

Depending on the context, select the **About this Application** option from the the nView menu to view information *either* about a disabled nView Desktop Manager function *or* a brief description of how to use an enabled “custom” application-specific nView Desktop Manager function.

This **About this Application** nView menu option appears under the following situations:

- You have *disabled* one or more nView Desktop Manager functions for the application.

Select the **About this Application** option from the nView menu to view information about the disabled nView Desktop Manager function(s).

A sample “About this Application” information box for PowerPoint is shown in Figure 8.39. This information describes both *disabled* and *enabled* PowerPoint-specific nView Desktop Manager functions.

- You have *enabled* one or more “custom” application-specific features for the application.

Select the **About this Application** option from the nView menu to view a brief description of how to use the enabled “custom” application-specific nView Desktop Manager function(s)

A sample “About this Application” information box for Internet Explorer is shown in Figure 8.39. The information describes two *enabled* Internet Explorer-specific nView Desktop Manager functions.

Application-Specific nView Menu Options

In addition to the standard nView menu options described previously, certain applications have custom features on the nView options menu. Note that when an application has such custom features enabled, the **“About this application...”** option appears on the nView options menu.

Select this menu option to view a brief description of how to use the feature. A sample “About this Application” for a disabled nView Desktop Manager function is shown in [Figure 8.39](#).

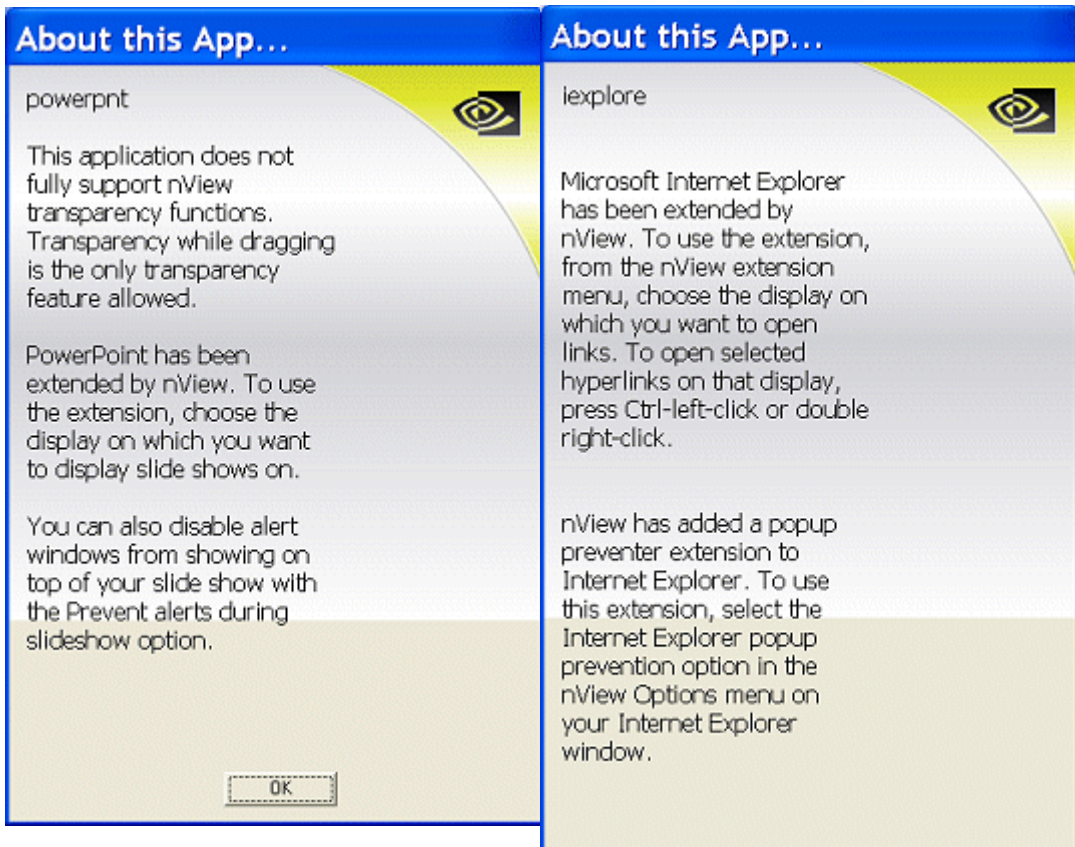
For detailed information on how to enable “custom” nView options for Microsoft Internet Explorer and PowerPoint®, see [“Application Enhancements” on page 204](#).

Application-Specific nView Menu Options

In addition to the standard nView menu options described previously, certain applications have custom features on the nView options menu. Note that when an application has such custom features enabled, the **“About this application...”** option appears on the nView options menu. Select the option to view a brief description of how to use the feature. A sample “About this Application” for a disabled nView Desktop Manager function is shown in [Figure 8.39](#).

For detailed information on how to enable “custom” nView options for Microsoft Internet Explorer and PowerPoint®, see [“Application Enhancements” on page 204](#).

Figure 8.39 Sample “About this Application” Information for *Disabled* and *Enabled* nView Desktop Manager Functions



USING EFFECTS

The following major topics are discussed in this chapter:

- “About Effects” on page 147
- “Accessing the Effects Page” on page 148
- “Window Drawing Enhancements” on page 148
- “Windows Color Keying” on page 150

About Effects

The Desktop Manager Effects page 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 page 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.

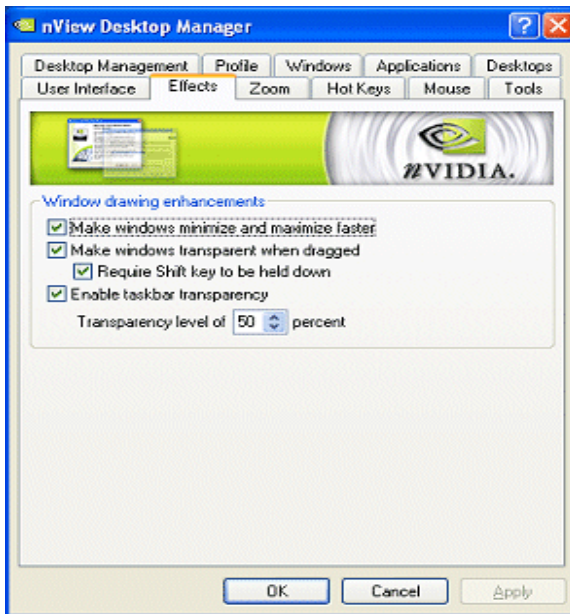
Key benefits of using Effects features are that

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

Accessing the Effects Page

- 1 If you need help accessing the nView Desktop Manager control panel, see [“Accessing the nView Desktop Manager Control Panel”](#) on page 37.
- 2 Click the **Effects** tab or menu option to display the nView Desktop Manager **Effects** page ([Figure 9.1](#) and [Figure 9.2](#)).

Figure 9.1 Effects Page for NVIDIA GeForce-based Graphics Cards



Window Drawing Enhancements

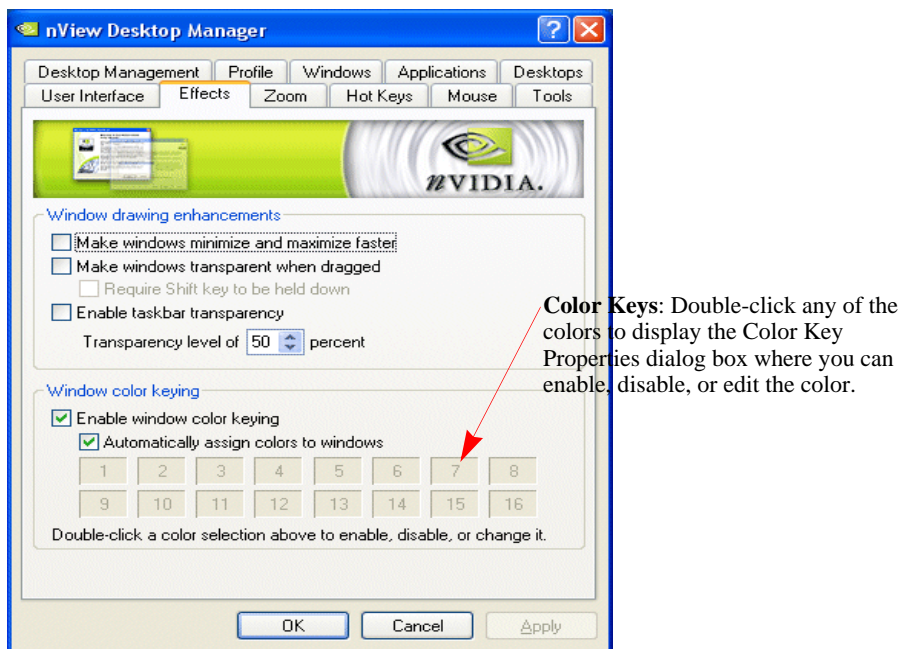
Making Windows Minimize and Maximize Faster

Select the **Make Windows Minimize and Maximize Faster** check box to accelerate opening, maximizing, and restoring application windows.

Make Windows Transparent When Dragged

Select the **Make Windows Transparent When Dragged** check box to enable 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 9.2 Effects Page for NVIDIA Quadro-based Graphics Cards



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, select the **Require Shift key to be held down** check box.

Enable Taskbar Transparency

Select the **Make Windows Transparent When Dragged** check box option to make the Windows taskbar transparent.

Transparency Level

Select the **Transparency Level** check box to set 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 page.

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 GPU-based graphics cards.

Enabling Window Color Keying

When you select the **Enable window color keying** check box, the 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 139 and/or “Individual Settings” on page 203*) 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 page. 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 171](#).

Automatically Assign Colors to Windows

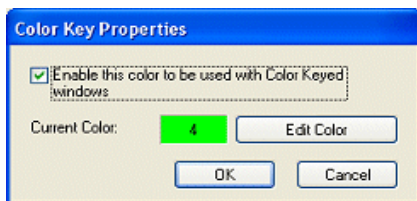
When you select the **Automatically Assign Colors to Windows** check box, your application windows that are open will automatically become “color keyed” with the enabled colors. Colors will be automatically chosen out of the color pool as long as colors are available — i.e., not used by individual application settings. 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 9.1](#)), follow these steps:

- 1 Double-click any of the colors to display the Color Key Properties dialog box shown in [Figure 9.3](#).

Figure 9.3 Color Key Properties



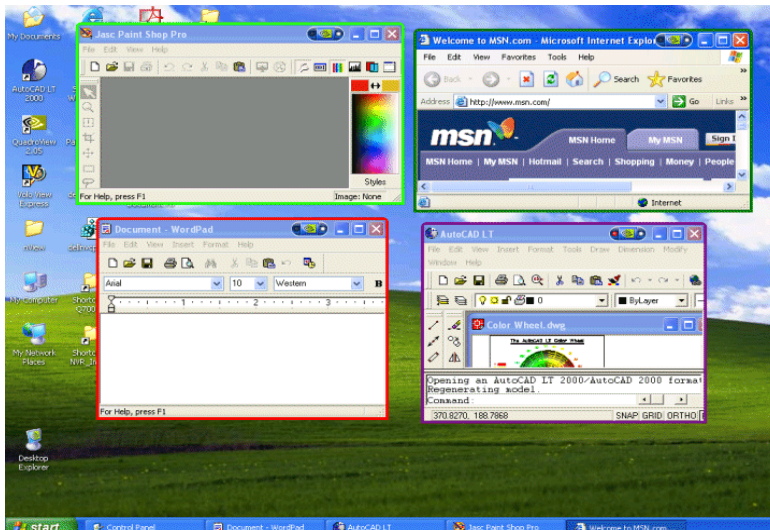
- 2 **To disable the color** to be used with the Color-Keyed windows, click the checked box to remove the check mark and click **OK**. Notice that the color for that number (in this case “4”) is removed from the Color-Keyed table in the Effects page.
- 3 **To enable a color**, follow these steps:

- 1 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.
 - 2 Click the **Enable the color key** check box to insert the check mark.
 - 3 Click **OK**.
- 4 To **edit the color to be used** with the Color-Keyed window, follow these steps:
- 1 From the Effects page, double-click the color number you want to edit.
 - 2 Click the **Edit Color** options from the Color Key Properties dialog box.
 - 3 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 page.

Colored Application Window Borders

Figure 9.4 shows sample applications with colored window borders.

Figure 9.4 Sample Colored Application Window Borders



CHAPTER 10

USING ZOOM OPTIONS

This chapter contains the following sections:

- “About Zoom Options” on page 154
- “Accessing the Zoom Page” on page 154
- “Zoom Features: Display Properties vs. Desktop Manager” on page 156
- “Zoom Window Styles” on page 157
- “Using the Mouse Wheel to Change Zoom Levels” on page 157
- “Showing the Cursor in a Zoom Window” on page 158
- “Automatically Moving Zoom Window to the Next Screen” on page 158
- “Enabling Bi-Directional Editing” on page 158
- “Inverting the Colors of the Zoomed Image” on page 159
- “Zooming Video Playback (disables overlay)” on page 159
- “Showing the Zoom Window” on page 160
- “Full Screen Video Zoom” on page 169
- “QuickZoom Hot Key” on page 169

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 page 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 Page

- 1 If you need help accessing the nView Desktop Manager control panel, see [“Accessing the nView Desktop Manager Control Panel” on page 37.](#)
- 2 Click the **Zoom** tab or menu option to display the nView Desktop Manager **Zoom** page.

[Figure 10.1](#) shows options specific to **Magnifying glass** and **Centered on cursor** zoom styles. [Figure 10.2](#) shows options specific to **Fixed Frame** zoom styles.

Figure 10.1 Zoom Page for **Magnifying Glass** and **Center on cursor** Zoom Styles

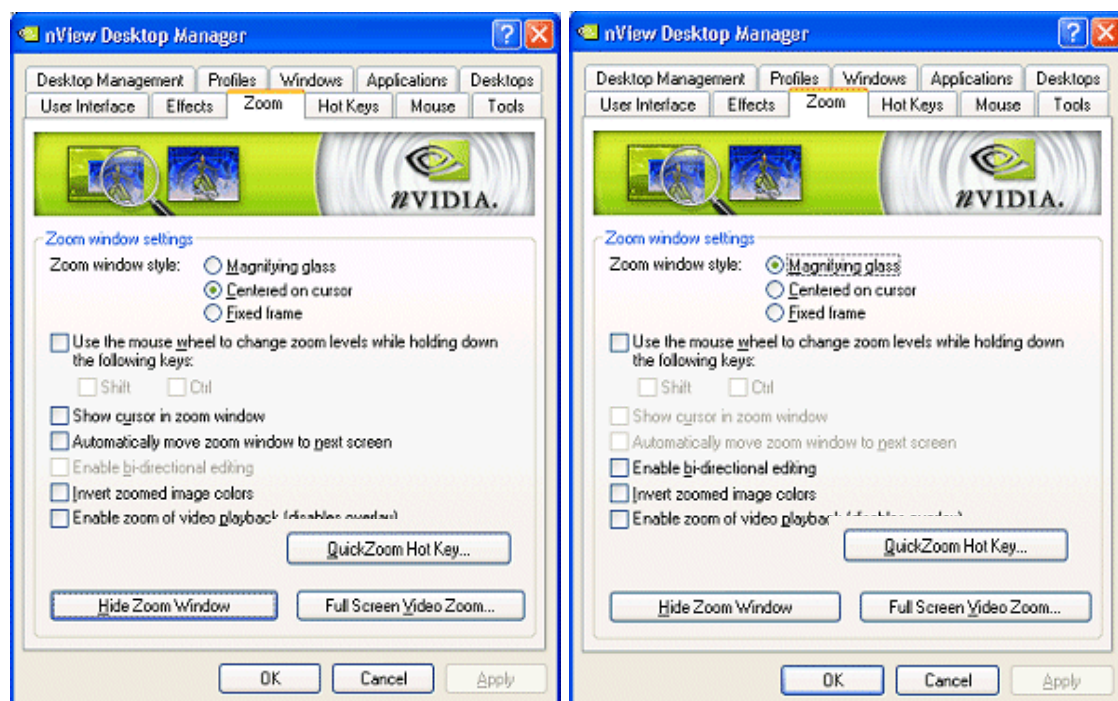


Figure 10.2 Zoom Page for **Fixed Frame** Zoom Style



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 from the NVIDIA Control Panel. 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 page contains the **Video Mirror Controls**. Clicking this option will give you access to the Overlay Controls page 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 164](#).

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 162](#)

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 166](#).

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 160](#).

- To use the mouse wheel to change zoom levels while holding down one of the following keys (**Shift** or **Ctrl**), follow these steps:
 - 1 Click the **Use the mouse wheel to change zoom levels. . . .** check box to enable the option.
 - 2 Then click **Shift** and/or **Ctrl**.
 - 3 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 **Automatically move zoom window to the next screen** check box is *only* available when you have selected the "Centered on cursor" option on the Zoom page.

When you select the **Automatically move zoom window to the next screen** check box 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** check box is *only* available if you have selected the "Magnifying glass" or "Fixed Frame" option on the Zoom page.

When you select this check box, 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 160 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

Select the **Invert zoomed image** check box to invert the colors of your zoomed image.

Zooming Video Playback (disables overlay)

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

The **Enable zoom of video playback (disabled overlay)** check box to disable hardware overlay when the Zoom Window is open. This prevents the use of hardware overlay by the video playback.

Note: This setting does not affect videos that are currently playing when the Zoom Window opens but only affects video windows opened after you have opened 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

Click **Show Zoom Window** to open a Zoom Window that can display a magnification of a selected area of your screen using the zoom style you have selected on the Zoom page — i.e., “Magnifying Glass,” “Centered on Cursor,” or “Fixed Frame”.

- When a Zoom window is open, this button changes to **Hide Zoom Window**. Clicking **Hide Zoom Window** closes the 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 160
- “Zoom Refresh” on page 161
- “Zoom Style” on page 162
- “Using Cursor Style Zoom” on page 162
- “Using Magnifying Glass Style Zoom” on page 164
- “Using Fixed Frame Zoom” on page 166

Zoom Level

Zoom Level can be set from 1x to 10x (Figure 10.3).

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 page.

Figure 10.3 Zoom Level Menu

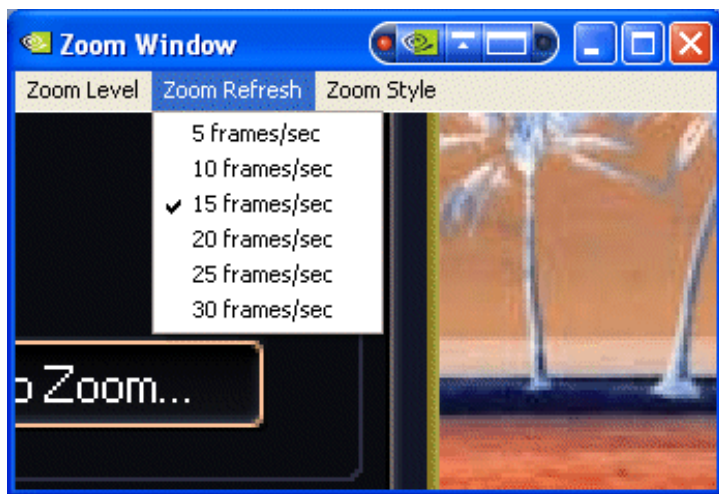


Zoom Refresh

Zoom Refresh can be set from 5 frames/second to 30 frames/seconds, in increments of 5 (Figure 10.4).

Note: Higher refresh rates require more processing power.

Figure 10.4 Zoom Refresh Menu

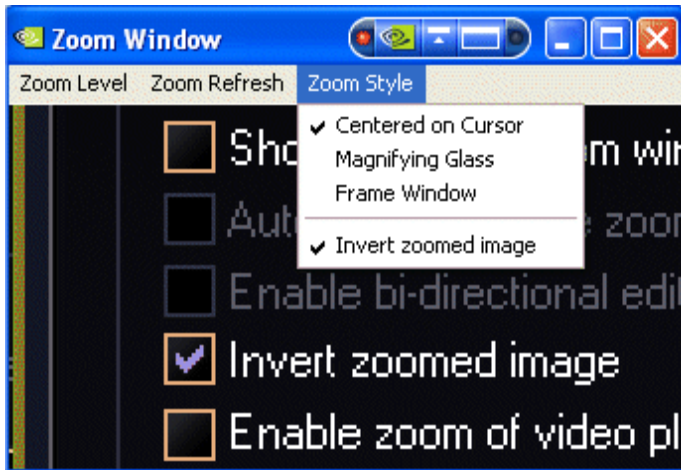


Zoom Style

Zoom Style can be set to any one of the following settings as shown in [Figure 10.1](#) and [Figure 10.5](#).

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

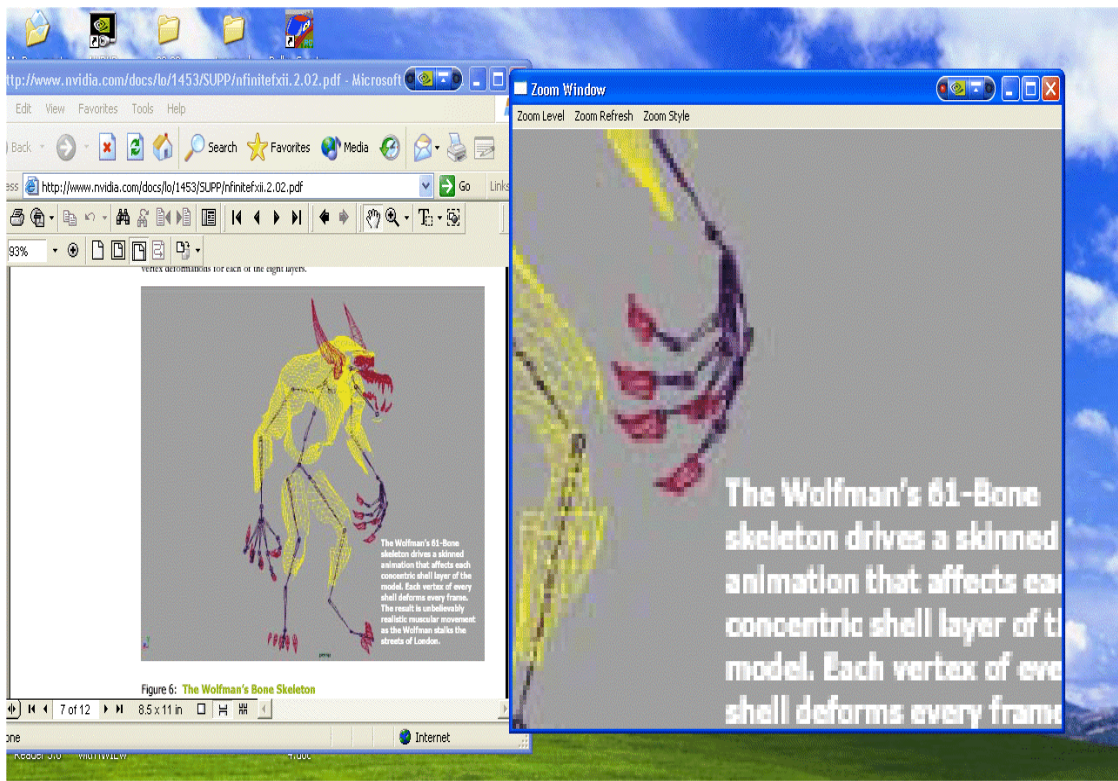
Figure 10.5 Zoom Style Menu



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 10.6](#).

Figure 10.6 Cursor Style Zoomed Area in Zoom Window (1)



Another cursor style zoom window is shown in [Figure 10.7](#) below.

Figure 10.7 Cursor Style Zoomed Area in Zoom Window (2)



Using Magnifying Glass Style Zoom

- 1 Enable **Magnifying glass** zoom style either from the Zoom page (shown in [Figure 10.1](#)) or (if you already have the zoom window open) from the Zoom menu ([Figure 10.5](#)).
- 2 If you enabled the option from the Zoom page, when you click the **Show Zoom Window** option from the Zoom page with the **Magnifying glass** option enabled (checked), the magnifying glass style zoom window appears with a white square inside the window ([Figure 10.8](#)).

Figure 10.8 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 10.9](#) 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 10.10](#) shows the result of a magnifying glass zoom.

Figure 10.9 Magnifying Glass Style Zoom Window Over Zoom Area

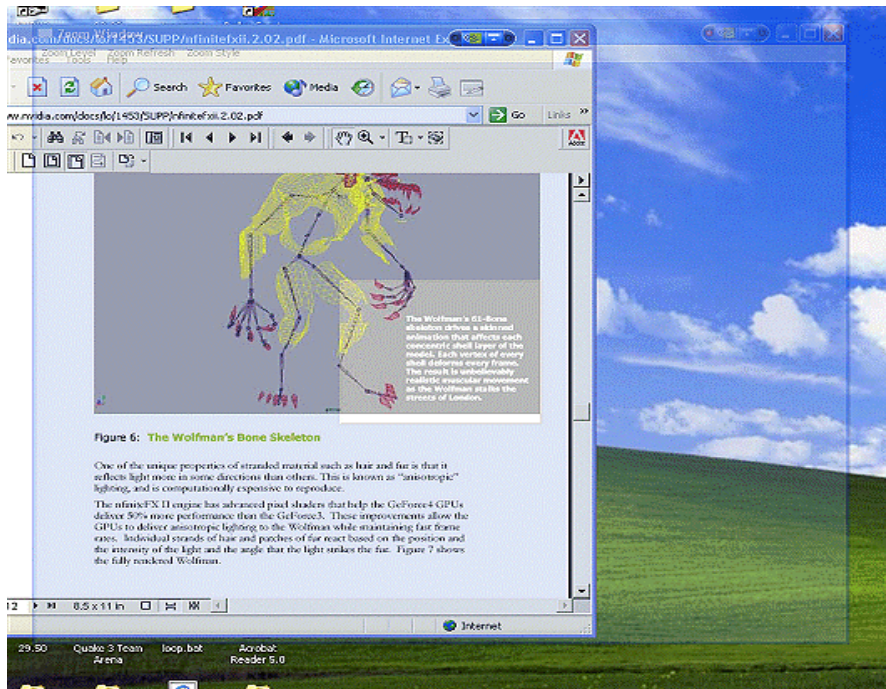


Figure 10.10 Magnifying Glass Style Zoomed Area in Zoom Window (1)

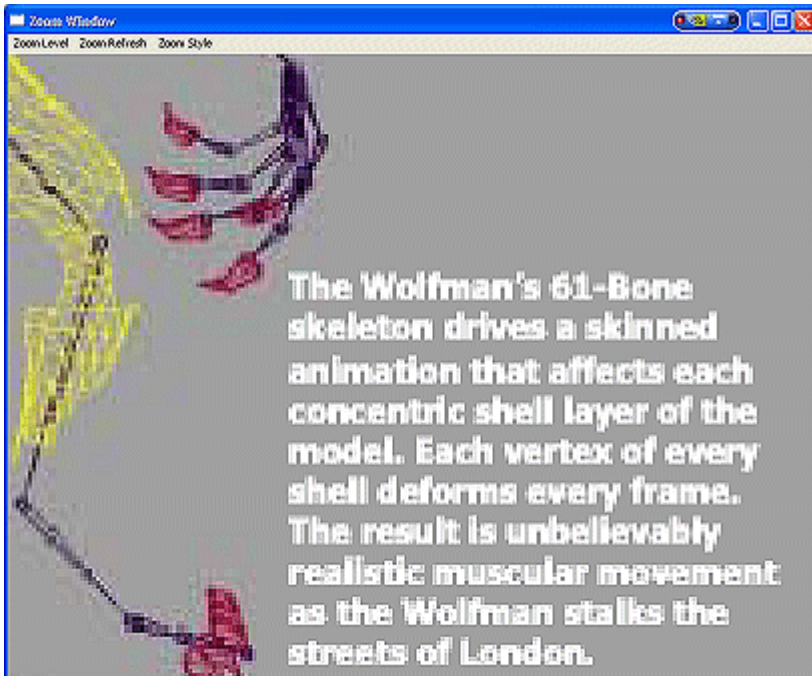


Figure 10.11 Magnifying Glass Style Zoomed Area in Zoom Window (2)



Using Fixed Frame Zoom

When you select the **Fixed frame** check box and click the **Show Zoom Window** option, the Zoom Window opens along with a second, smaller “zoom source” window labeled “**Zoom Window - Fixed Frame**”, as shown in [Figure 10.13](#). You can

then use this “Fixed Frame” window to magnify a fixed area of your desktop inside the Zoom Window.

- 1 Select the **Fixed frame** check box and click **Apply**.
- 2 Click **Show Zoom Window** to display the Zoom Window. Notice that the fixed frame window (titled **Show Window - Fixed Frame**) appears inside the Zoom Window (Figure 10.13).

Figure 10.12 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 To magnify an area of your desktop, move this fixed frame window outside the Zoom Window to an area of your desktop that you want to magnify. The magnified area then appears in the Zoom Window.
- 4 To magnify another area of your desktop, click the **Fixed Frame** menu from the Zoom Window to redisplay the fixed frame window and move the fixed frame window the desktop area you want to magnify.
- 5 Repeat step 4 for each new desktop area you want to magnify using the fixed frame style.

- 6 Move the small “**Zoom Window – Fixed Frame**” window (labeled in [Figure 10.13](#)) 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 10.13](#).

- 7 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 10.13](#).

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.

- 1 To re-display the **Zoom Window - Fixed Frame** window, click the **Fixed Frame** menu option in the main **Zoom Window**.
- 2 Then move the now visible **Zoom Window - Fixed Frame** window to the new area of the desktop you want to zoom.”

Figure 10.13 Magnified Area in Zoom Window: Zoom Window

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



- 8 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 connected, i.e., your NVIDIA Control Panel display setting is set to Single Display. You can configure other Full Screen Video options from the NVIDIA Control Panel.

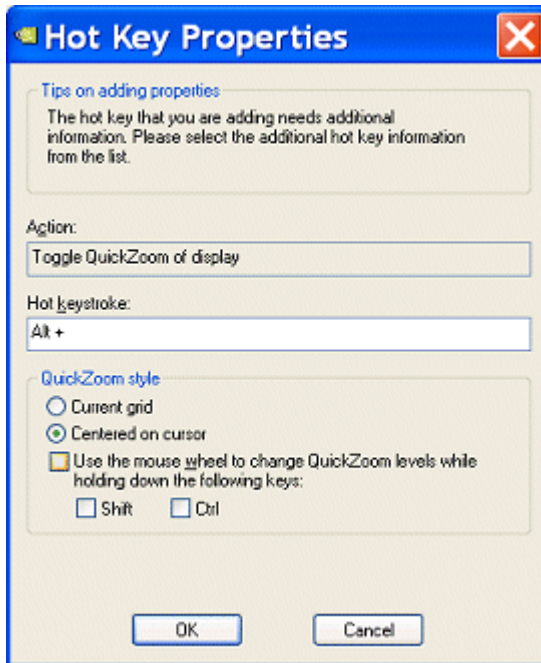
To display full-screen video on one of your display devices,

- 1 Click the **Full Screen Video Zoom** option to open the NVIDIA display properties Full Screen Video page.
- 2 Click the **Full scree device** list.
- 3 Select **Auto-select** if your NVIDIA display mode is set to Dualview or one of the Span modes on the NVIDIA Control Panel.
- 4 Select **Primary display** or **Secondary display** if your NVIDIA display mode is set to Clone mode on the NVIDIA Control Panel.

QuickZoom Hot Key

From the Zoom page, click the **QuickZoom Hot Key . .** option to open the Hot Keys Properties dialog box (Figure 10.14) where you can configure the following **QuickZoom style** settings.

Figure 10.14 Hot Key Properties for the QuickZoom Hot Key Option



- **Current grid** lets you zoom the display to show the grid where your mouse cursor is located. If there are no grids set, then the display where your mouse cursor is located is shown.
- **Centered on cursor** lets you zoom the display around the mouse cursor.
- **Use the mouse wheel....** If you want to quickly zoom in and out of your entire desktop by pressing a **Shift** or **Ctrl** key together with your mouse wheel, select this check box and then select *either* the **Shift** or the **Ctrl** check box.

Be sure to click **Apply** for the changes to take effect.

CHAPTER 11

USING HOT KEYS

The following topics are discussed in this chapter:

- “About Hot Key Options” on page 171
- “Accessing the Hot Keys Page” on page 172
- “Selecting an Action” on page 173
- “Adding a Hot Key” on page 178
- “Removing a Hot Key” on page 181
- “Removing All Hot Keys” on page 181
- “Active Hot Keys List” on page 182

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 11.1](#)), you can

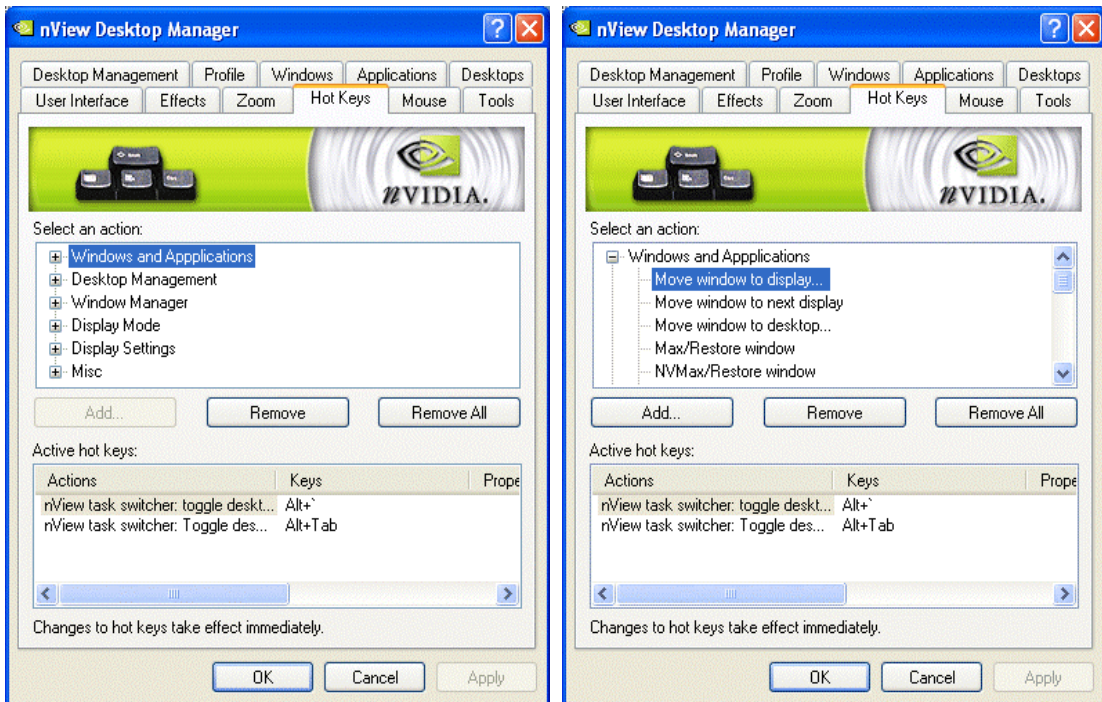
- View a list of hot keys that you have defined for your system.
- Arranged hot keys in a tree view

- 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 Page

- 1 If you need help accessing the nView Desktop Manager control panel, see [“Accessing the nView Desktop Manager Control Panel”](#) on page 37.
- 2 Click the **Hot Keys** tab or menu option to display the nView Desktop Manager **Hot Keys** page ([Figure 11.1](#)).

Figure 11.1 Hot Keys Page



Selecting an Action

The **Select an Action** list box ([Figure 11.1](#)) 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 178](#) to assign the hot key to the selected action.

Windows and Applications Actions

- **Move window to display** — moves the active window to a user-specified display.
- **Move window to next display** — moves 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 Windows maximize/restore function for the current window.
- **NVMax/Restore window** — toggles an nView maximize/restore function maximize/restore function for the current window. This functionality is explained in
- **Minimize/Restore window** — minimizes a window to the taskbar and restore if the window still selected.
- **Collapse/Restore window** — toggles between collapsing 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.
- **Toggle show all desktops** — forces the window to appear on all desktops.
- **Toggle 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 appear on *only* the current desktop 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** — lets you easily control color-keyed windows so that a window can be immediately accessible with a single keystroke no matter where on the desktop(s) the window is located.

Note: This option is available *only* when using a graphics card based on one of the NVIDIA Quadro-based GPUs.

After you define a hot key corresponding to a color (for details, see [“Examples of Actions Requiring Additional Information” on page 179](#)), 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.

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.

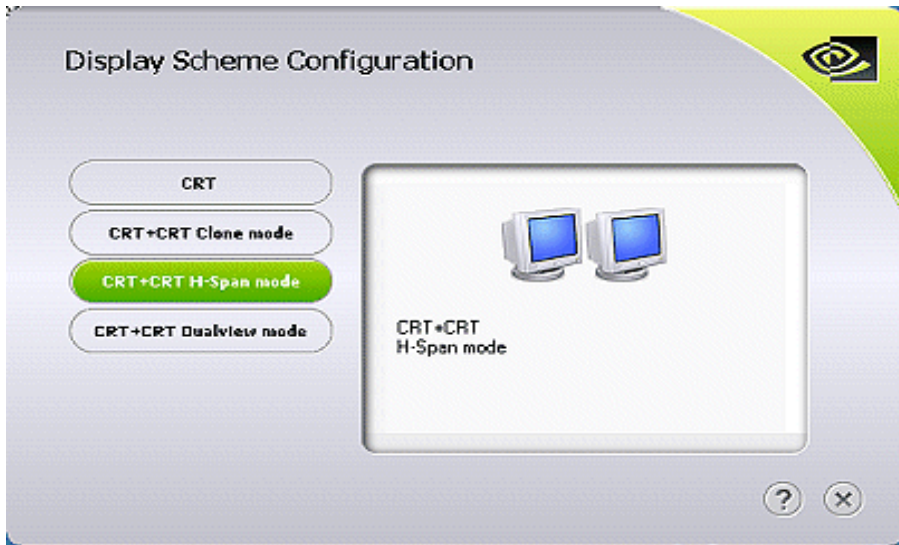
Note: This hot key is only available with Windows XP and only works when you are in single-display or nView Clone mode.

- **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 page:
 - **Landscape**
 - **Portrait**
 - **Inverted Landscape**
 - **Inverted Portrait**

Display Settings Actions

- **Show display scheme menu** — shows the Display Scheme Configuration menu (Figure 11.2) that you can use to add, delete, and configure schemes.
 - To add a display scheme to the menu on the left, press the **Ins (Insert)** key.
 - To delete a display scheme from the menu on the left, press the **Del (Delete)** key and select an item from the list on right side of the **Display Scheme Configuration** dialog box.
 - You can also rearrange the order of the menu by dragging and dropping menu items.
 - The order of display schemes on the menu list also depends on the frequency with which the display schemes are applied.

Figure 11.2 Display Schemes Configuration



- This frequency has higher priority than the order in which you may have configured through drag and drop.

For example, let's say that you have created display scheme 1 (DS1) through display scheme 5 (DS5) on the menu list in the order of 1 through 5, initially. Then display scheme 2 (DS2) was applied twice, display scheme 1 (DS1) was only applied once, and the remaining display schemes were not applied at all. In this case, when the menu is next opened, DS2 will be the first item on the list and DS1 will be the second on the list. So, for example, if you now drag and drop the items to the following order: DS2, DS3, DS1, DS5, DS4, the menu list will appear as DS2, DS1, DS3, DS5, DS4 — reverting to the frequency with which the display schemes have been applied instead of the user configured order.

- When the list has more than six items, scroll button(s) are available. The list scrolls when the mouse is over the scroll button.
- When you cursor over the menu items on the left, the description of the display schemes appear on right side of the menu within the white background.
- The “close window” option is designated by the **X** icon in the bottom right corner of the **Display Scheme Configuration** dialog box. You can also exit the menu by pressing the **Escape** key or by clicking anywhere on the screen
- The Help option is designated by the **?** icon in the bottom right corner of the **Display Scheme Configuration** dialog box. Click **?** to display Help text.

- **Toggle NVKeystone mode** — toggles the NVKeystone mode between *off*, *on*, and *adjust*.
Note: NVKeystone must be enabled (checked) on the **Tools** page for this hot key to have any effect.
- **Show display grid** — shows the display grid for the monitor where the cursor is located.
- **Edit display grid** — lets you edit the monitor grid which the cursor is on.
- **Adjust display brightness** — lets you adjust the display brightness of the monitor where your cursor appears.
- **Adjust display contrast** — lets you adjust the display contrast of the monitor where your cursor appears.
- **Adjust display gamma** — lets you adjust the display gamma of the monitor where your cursor appears.
- **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: Toggle desktop applications** — lets you switch between applications on the currently selected desktop. (The default hot key is **Alt-Tab**.)
- **nView task switcher: Toggle all applications** — lets you switch between applications on all of your desktops.
- **nView task switcher: Toggle desktops** — lets you switch between desktops.
- **Save workspace state** — lets you save the current display, desktop management, and open application states.

- **Restore workspace state** — lets you restore a saved workspace state, including the display, desktop management, and open application states.
- **Toggle nView toolbar** — lets you toggle the nView toolbar *on* and *off*.

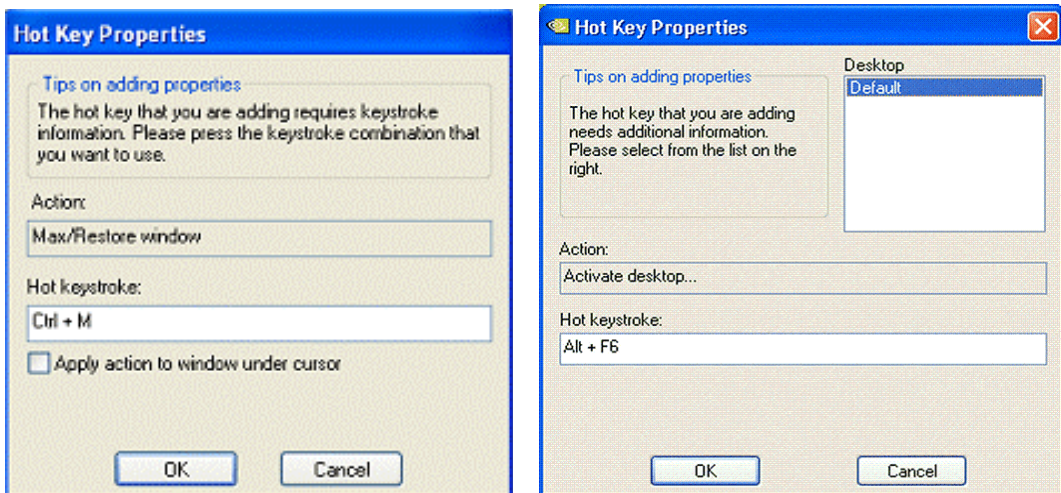
Adding a Hot Key

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 page, click **Add**. A Hot Keys Add properties dialog box appears (Figure 11.3 shows two examples) that lets you set the “hot key” keystroke and set any additional information the hot key needs to operate.

Figure 11.3 Hot Keys Properties Dialog Box Examples



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:

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

- 2 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.

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 173](#)), a **Browse** button appears allowing you to browse for the application.

Also see [“Examples of Actions Requiring Additional Information” on page 179](#).

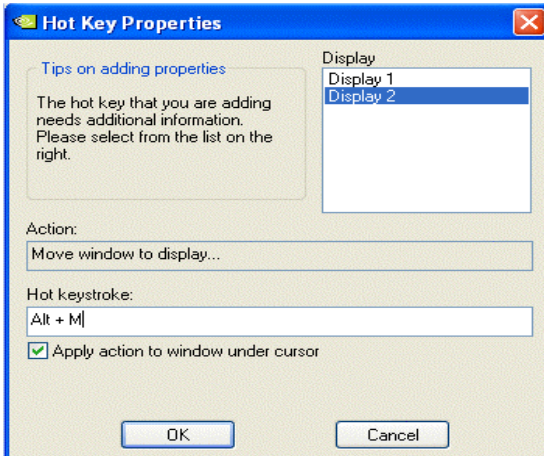
- 2 Click **OK** when you’ve entered the key strokes., the selected hot key action and keystroke combination are added to the Active Hot Keys list. Once a hot key is added, it is active and available for use.

Examples of Actions Requiring Additional Information

Move window to display...

An example of an action requiring additional information is the “**Move window to display...**” action. Before you can add a hot key for this action, you must use the Hot Keys Properties dialog box ([Figure 11.5](#)) to enter the monitor (display device) on which you want the hot key to move windows

Figure 11.4 Hot Keys Properties for “Move window to display. .” Action



Toggle Color-Keyed Window

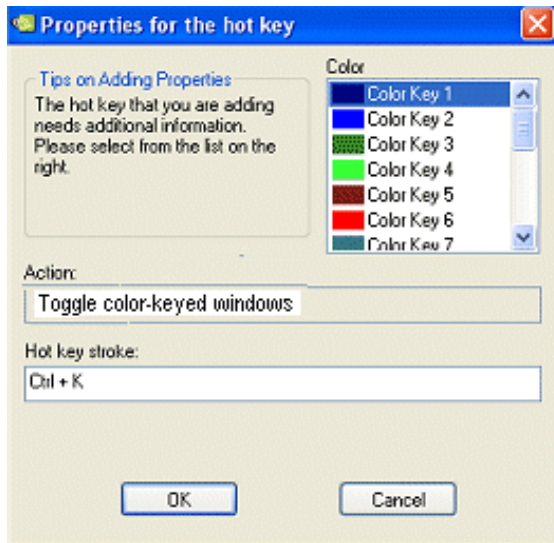
Another example of an action requiring additional information is “**Show color-keyed window**” available in the Display Settings category of actions. Before you can add a hot key for this action, you must use the Hot Keys Properties dialog box to enter additional information.

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 page but the “**Automatically assign colors to windows**” option is disabled (unchecked). For details, see “[Enabling Window Color Keying](#)” on page 150.
- 2 Set up a color for a particular application in the Individual Application Settings dialog box
- 3 Then, set up the “Show Color-Keyed window” hot key for the corresponding color by following these steps:
 - 1 Double-click the Color Key number shown in the Properties dialog box for the hot key ([Figure 11.5](#)).
 - 2 Edit the color as explained in “[Using the Color Key table](#)” on page 151 in Chapter 8.
 - 3 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 11.5 Hot Key Properties — “Toggle 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.

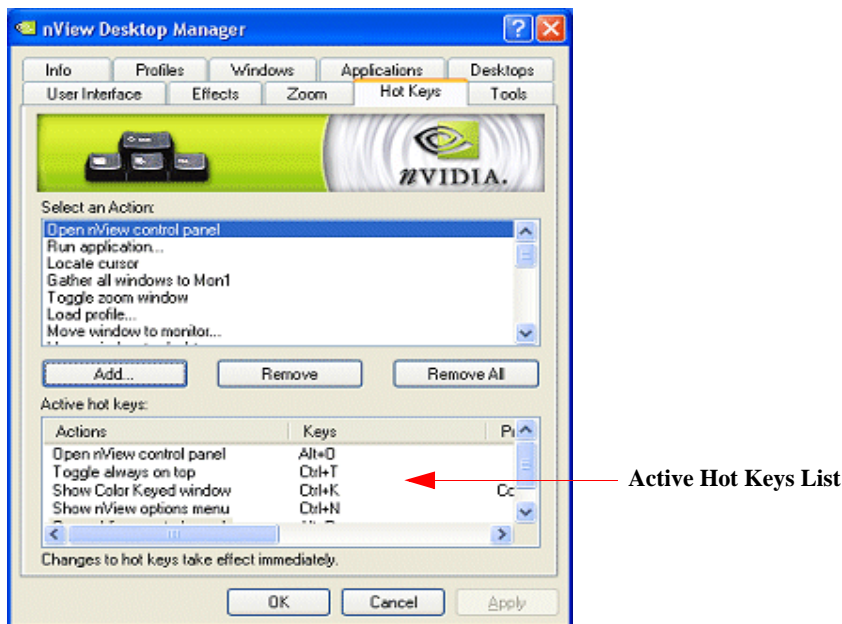
Active Hot Keys List

The Active Hot Keys list box displays a list of hot keys that have been assigned and are currently active. Figure 11.6 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 11.6 Active Hot Keys List



CHAPTER 12

CONFIGURING MOUSE EFFECTS

This chapter discusses the following major topics:

- “About Mouse Effects” on page 183
- “Accessing the Mouse Page” on page 184
- “General Settings” on page 184
- “Kinematics” on page 186

About Mouse Effects

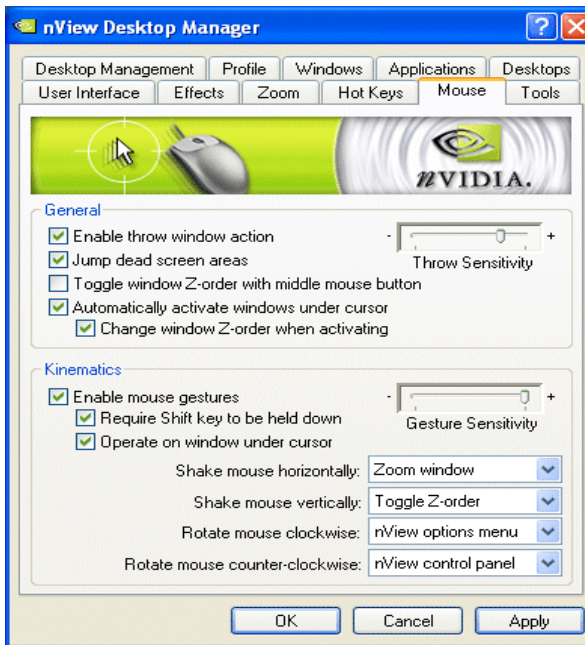
Mouse features include the following:

- **Throw window** – allows you to use your mouse to “throw” a window to a screen edge. Sensitivity can be adjusted by the slider
- **Jump dead screen areas** allows you to use your 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** performs the same function as the hot key, but with the mouse and to the window that is under your mouse pointer.
- **Auto-activate windows under the cursor** allows any window on which your cursor appears to become active and move to the front of the window order.
- **Assign mouse movements** to trigger different actions.

Accessing the Mouse Page

- 1 If you need help accessing the nView Desktop Manager control panel, see “Accessing the nView Desktop Manager Control Panel” on page 37.
- 2 Click the **Mouse** tab or menu option to display the nView Desktop Manager **Mouse** page (Figure 12.1).

Figure 12.1 Mouse Page I



General Settings

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

Enable Throw Window Actions

If you want to use your mouse to throw windows (for example, while dragging a window with your mouse, release the mouse) to screen edges, select the **Enable throw window action** check box.

Jump Dead Screen Areas

If you want to use your mouse to jump dead areas in non-rectangular multi-display environments, select the **Jump dead screen areas** check box

Note: In order to jump dead areas, you must be moving your mouse at a reasonable speed.

Toggle Window Z-Order with Middle Mouse Button

The *z-order* of a window indicates the window's position in a stack of overlapping windows. This window stack is oriented along an imaginary z-axis, extending outward from the screen. The window at the top of the z-order overlaps all other windows. The window at the bottom of the z-order is overlapped by all other windows.

When an application creates a window, the system puts it at the top of the z-order for windows of the same type.

You change the z-order by activating a different window. The system positions the active window at the top of the z-order for windows of the same type. When a window comes to the top of z-order, so does its child windows.

After selecting the **Toggle window Z-order with middle mouse button** check box, you can use your middle mouse button (if applicable) to toggle the z-order of the application window that is under your cursor.

Automatically Activating the Window Under Your Cursor

To make any window that is under your cursor to become active and move to the front of the window order, select the check box **Automatically activate window under cursor**.

Change Window Z-order When Activating

If you selected the **Automatically activate window under cursor** check box, you can also select the **Change window z-order when activating** check box to control whether the window that is auto-activated is brought to the front of the z-order.

Kinematics

Enable Mouse Gestures

In order to use any of the Kinematic options on this Mouse page, you must first select the **Enable mouse gestures** check box and click **Apply**.

Gesture Sensitivity

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 Mouse page, select the **Require Shift key to be held down** check box.

Operate on Window Under Cursor

If you want to perform any of the mouse gestures on the window that appears under you cursor instead of the active window, select the **Operate on window under cursor** check box

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 Shake the mouse horizontally to automatically perform, the action you just assigned.

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 Shake the mouse vertically to automatically perform, the action you just assigned.

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 Rotate the mouse clockwise to automatically perform the action you just assigned.

CHAPTER 13

USING TOOLS OPTIONS

This chapter contains the following major sections:

- [“About Tools Options” on page 188](#)
- [“Accessing the Tools Page” on page 188](#)
- [“About NVKeystone” on page 189](#)
- [“Display Calibration” on page 194](#)
- [“Windows Utilities” on page 194](#)

About Tools Options

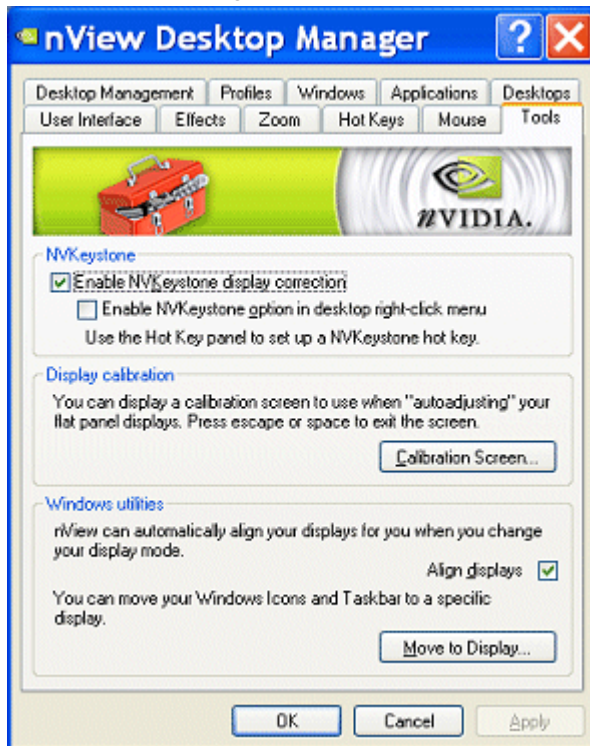
The nView Desktop Manager Tools page offers several miscellaneous tools that can help you be more productive. Included features are NVKeystone to correct for display keystone, a flat panel calibration screen used to optimize the calibration of your analog flat panels, and several windows utilities that can automatically correct for improper display settings when they occur.

Accessing the Tools Page

- 1 If you need help accessing the nView Desktop Manager control panel, see [“Accessing the nView Desktop Manager Control Panel” on page 37](#).

- 2 Click the **Tools** tab or menu option to display the nView Desktop Manager **Tools** page (Figure 13.1).

Figure 13.1 Tools Page



About NVKeystone

The NVKeystone options (Figure 13.1) allow you to 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

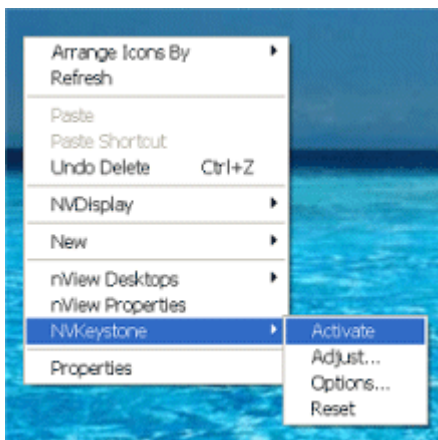
Click this check box to toggle enabling/disabling the anti-keystone feature.

Note: If this option is disabled, NVKeystone menus and hot keys will not work.

Enabling NVKeystone Option in Desktop Menu

Click the **Enable NVKeystone Option in Desktop Menu** check box to add an **NVKeystone** menu option in your desktop right-click menu ([Figure 13.2](#)) for easy access to NVKeystone.

Figure 13.2 NVKeystone Option in Windows Desktop Menu



Note: If you do not select this check box, 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. See [“Display Settings Actions” on page 175](#).

Accessing NVKeystone

You can access NVKeystone using one of two methods:

- If you have selected the **Enable NVKeystone...** check box as explained in [Enabling NVKeystone Option in Desktop Menu](#) in the previous section, then right-click on your desktop to open your Windows desktop menu and click **NVKeystone** ([Figure 13.2](#)).
- Use a hot key assignment. See [“Display Settings Actions” on page 175](#).

Note: Using the “hot key” method is similar to the desktop menu method but only the hot key method can rotate between three different modes – **Off**, **On**, and **Adjust**.

NVKeystone Menu

The NVKeystone menu ([Figure 13.2](#)) 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 192](#) for details.
- **Reset** resets NVKeystone to its default settings; that is, “warping” is disabled.

NVKeystone Adjustment Screen

The “Adjustment Screen” ([Figure 13.3](#)) 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**.

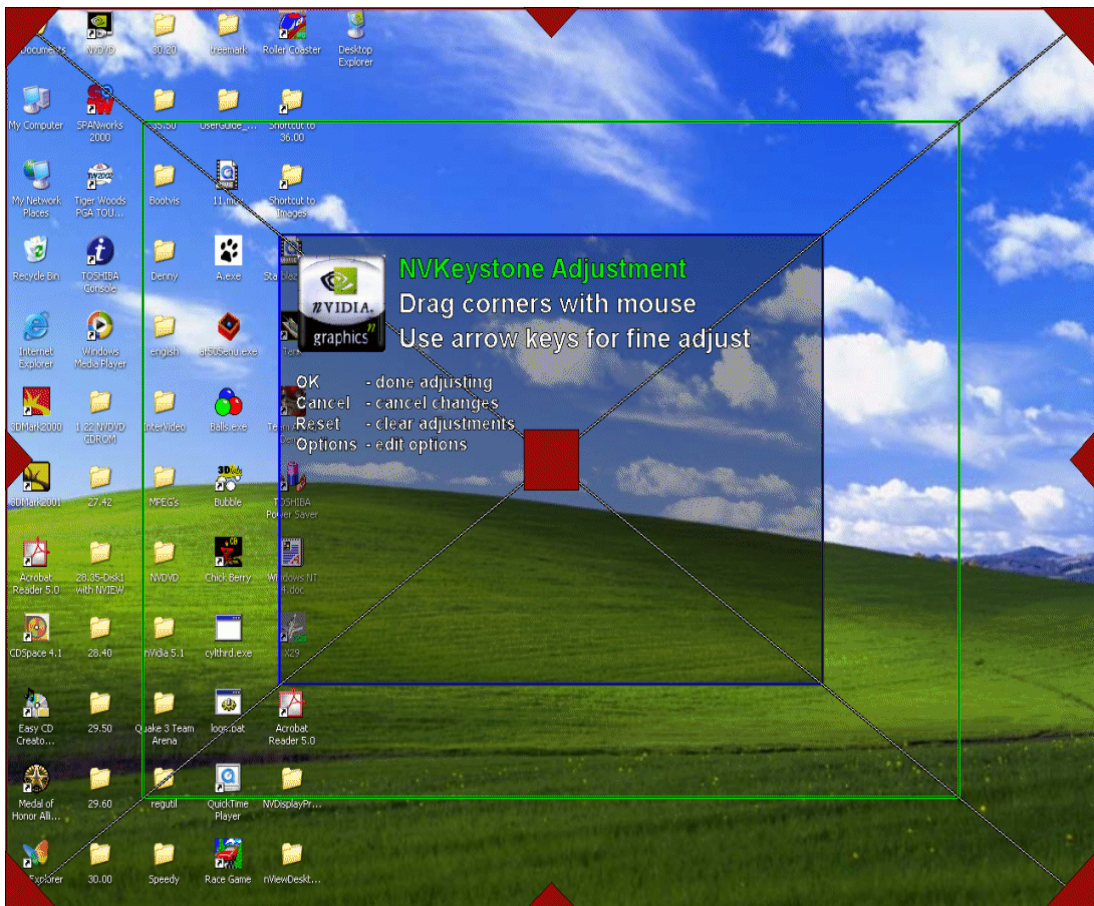
- **OK** lets you exit the Adjustment Screen after automatically saving the adjustments you have made.
- **Cancel** lets you exit the Adjustment Screen and discards any adjustments you have made. Note that your screen then reverts to its state before you opened the Adjustment Screen.

- **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 192 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:

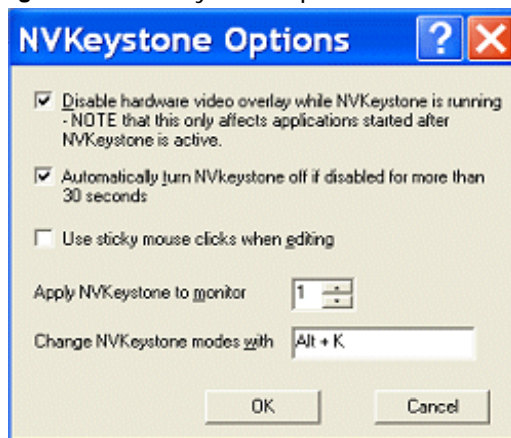
Figure 13.3 NVKeystone Adjustment Screen



- **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 13.4 NVKeystone Options



- Select the **Disable hardware video overlay while NVKeystone is running** check box to disable hardware video overlay on applications while NVKeystone is running.
Note: This feature affects applications started *after* you activate NVKeystone.
- Select the **Use sticky mouse clicks when editing** check box to enable “sticky” mouse clicks for the NVKeystone Adjustment Screen.
Note: “Sticky” mouse click means that you can click your mouse 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 monitor** ...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 mode, 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 171](#).

Display Calibration

You can display a calibration screen to use when “auto-adjusting” your flat panel displays.

Note: This calibration screen is not needed if you use analog display monitors (CRTs).

- 1 Click **Calibration Screen** from the Tools Page ([Figure 13.1](#)).

Each of your display screens will now display the nView calibration screen. This calibration screen has been designed to optimize calibration of analog flat panels when using auto-calibrate (or auto-synchronization) features available on most flat panels.

- 2 For each analog flat panel, select its **auto-calibrate** or **auto-synchronization** function.

Note: This function varies for each flat panel manufacturer.

- 3 After auto-synchronizing each flat panel, press any key to close the flat panel calibration screens.

Your display flat panels should now be calibrated to their optimum settings.

Windows Utilities

- **Align displays.** Select this check box if you want nView Desktop Manager to automatically align your displays and remove small pixel gaps when you change your display mode.
- **Move to display.** Click **Move to display** to move your WIndows icons and taskbar to a display you specify.

CHAPTER 14

MANAGING APPLICATIONS: FOR ADVANCED USERS

This chapter contains the following major sections:

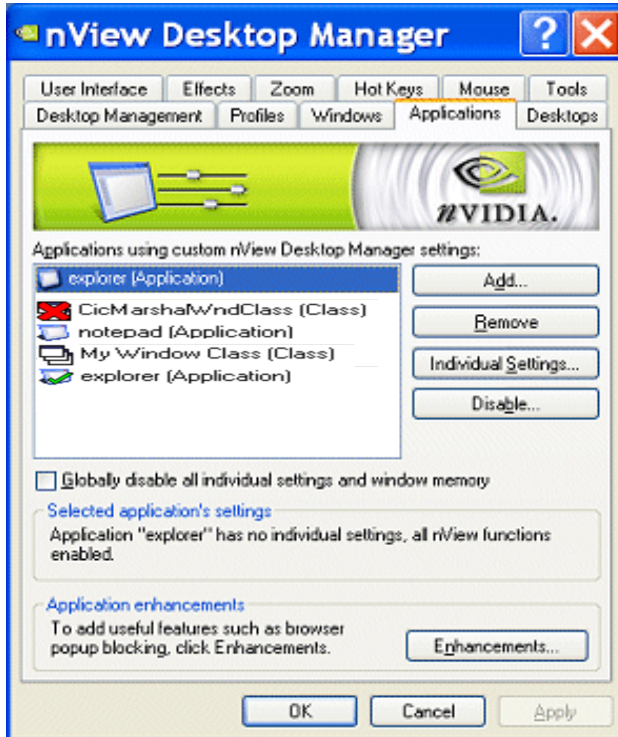
- “Accessing the Applications Page” on page 195
- “About the Applications Features” on page 196
- “Adding an Application” on page 198
- “Removing an Application” on page 199
- “Globally Disable Individual Settings and Window Memory” on page 200
- “About Windows Classes” on page 200
- “Adding a Window Class” on page 201
- “Disabling an nView Desktop Manager Function” on page 202
- “Individual Settings” on page 203
- “Application Enhancements” on page 204

Accessing the Applications Page

- 1 If you need help accessing the nView Desktop Manager control panel, see “Accessing the nView Desktop Manager Control Panel” on page 37.

- 2 Click the **Applications** tab or menu option to display the nView Desktop Manager **Applications** page (Figure 14.2).

Figure 14.1 Applications Page



About the Applications Features

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 page provides a central spot where you can set up and edit these individual application settings. The Applications page 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 page, 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** page (Figure 14.1) displays a list of applications and window classes that have been added and then set up for **Individual Settings** and/or to have nView Desktop Manager functions disabled for it.

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 14.1 shows 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 14.1. If you close the Applications page now and then re-open it, these two list elements will be removed because they had no special settings applied to them.

Note: In the section titled **Selected application's settings**, 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.

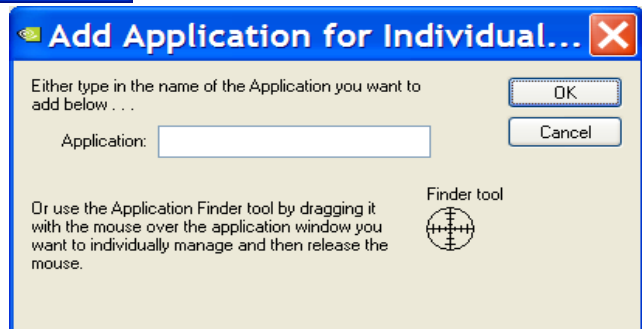
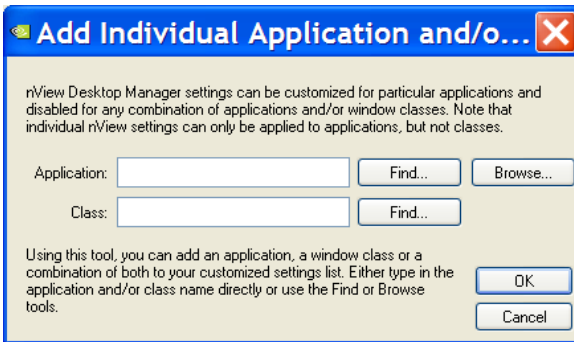
Adding an Application

Use the **Add** option to add an application to the individually managed list box on the Applications page.

Note: If you do not set **Individual Settings** for the application, the application will be removed from the list when you close the nView Desktop Manager control panel.

- 1 To add an application, click **Add** to display a dialog box (Figure 14.2) where you can use the **Find** or **Browse** option to locate an application to add to the list box.

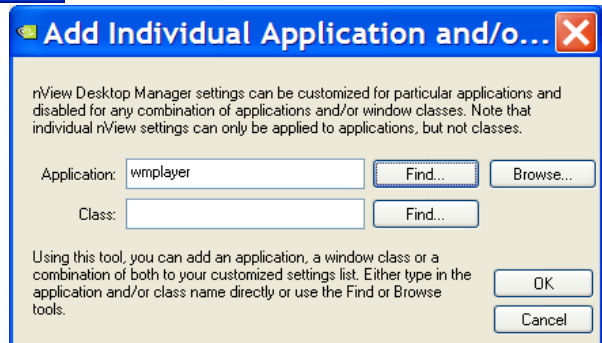
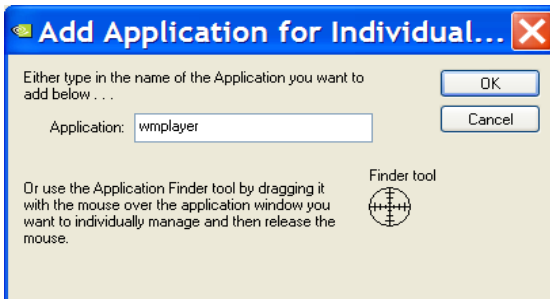
Figure 14.2 Add Application Dialog Boxes (1)



- 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 14.2](#)) 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 14.2](#)).
- 5 Click **OK**.

Figure 14.3 Add Application Dialog Boxes (2)



Removing an Application

Click **Remove** to do the following:

- Remove the application or class from the list, thus removing it from being individually manage *and*

- Delete any Individual Settings or disabled function information for the application or class.

Globally Disable Individual Settings and Window Memory

At the bottom of the application list is a setting labeled **Globally disable individual settings and window memory**.

When *enabled* (checked), this option disables all nView Desktop Manager individual application settings throughout the system for all windows.

About Windows Classes

In rare cases, some applications may be written in such a 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.

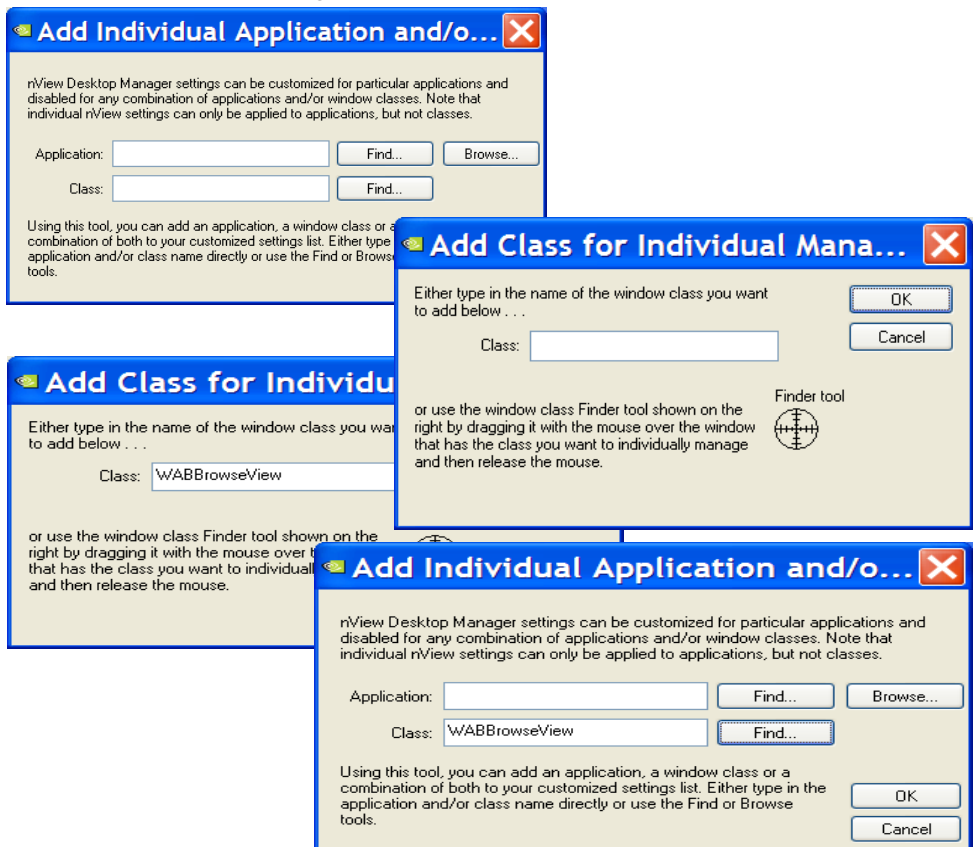
For example, the Zoom1 window class can be set up not to support the transparency feature. Therefore, there is no need to turn off transparency for all nView Desktop Manager windows. Also, if another application uses the Zoom1 window class, the transparency rule will still operate.

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 14.3) 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 14.4) 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 14.4).

Figure 14.4 Add Class Dialog Boxes (1)



- 4 Click **OK** to return to the Applications page where you will now see the class listed.

Disabling an nView Desktop Manager Function

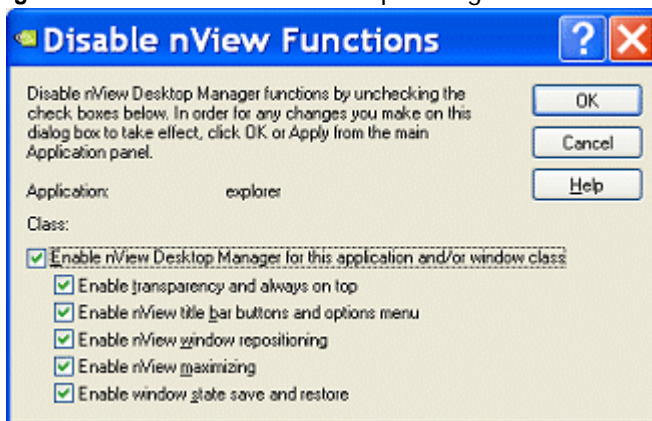
To disable one or more nView Desktop Manager functions for a particular application or class of windows, follow these steps:

- 1 From the Application page, 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 **Disable** to display the **Disable nView Functions** dialog box (Figure 14.5).

Figure 14.5 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

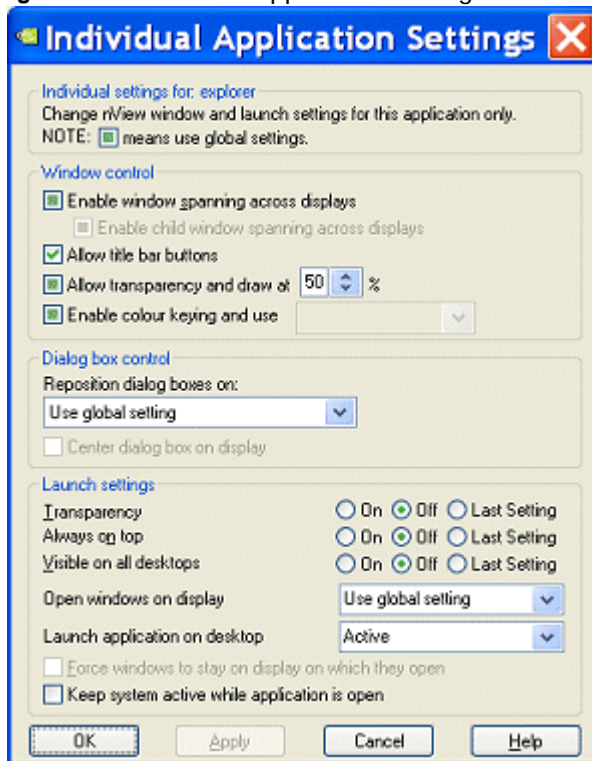
Note: You can also set up individual application settings using the nView options menu. To edit individual settings for an application, select **Individual Settings** > **Edit** on an application's nView option menu.

1 To set individual nView Desktop Manager window management and launch settings for an application, click the application in the list to highlight it.

2 Click **Individual Settings** from the Applications page.

The **Individual Application Settings** dialog box appears (Figure 14.6).

Figure 14.6 Individual Application Settings



From this dialog box, you can set up both individual window settings as well as launch settings for the application.

For details on using this dialog box, see “Individual Applications Settings” on page 140.

Application Enhancements

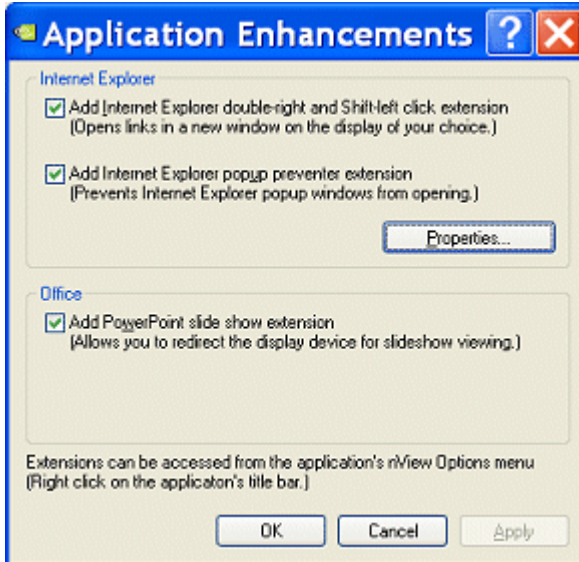
The Application Enhancements dialog box (Figure 14.7) lets you add useful features such as browser pop-up blocking and miscellaneous Internet Explorer-specific and PowerPoint-specific system menu extensions for customized application use.

Click **Enhancements** from the Application page to open the **Application Enhancements** dialog box (Figure 14.7).

Internet Explorer Options

Note: You must be running Internet Explorer 6.0 (at minimum) to access the nView Desktop Manager-based Internet Explorer options.

Figure 14.7 Application Extensions Dialog Box



Add Internet Explorer Double Right-click and Shift-left-click Extension

When you enable this option (Figure 14.7), a new menu item labeled **Create the link window on display *n*** (Figure 14.8) on your Internet Explorer 6.0 browser, where *n* represents your display device.

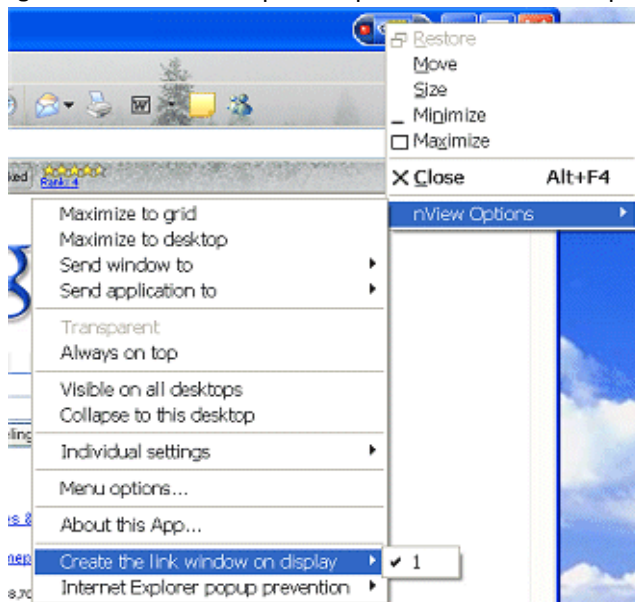
This option allow you to open links on a new window on the display of your choice.

For example, “1” is the only choice when only one display device is connected; 1 and 2 are choices when two display devices are connected; 1, 2, and 3 are choices when three display devices are connected, and so on.

Once you set this option on a primary Internet Explorer window, as shown in the example in Figure 14.8, 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 this option.

Note: If you want the links to open on a different display after already creating a “link window,” you must first close the current “link window” and then create a different link window.

Figure 14.8 Internet Explorer-Specific nView Menu Options



Add Internet Explorer Popup Preventer Extension

When you enable this option, a new menu item labeled **Internet Explorer popup prevention** is added to the nView options menu (Figure 14.8).

To set the Internet Explorer pop-up preventer extensions for *additional* sessions of your Internet Explorer window, follow these steps:

- 1 Select the **Internet Explorer popup preventer extension** check box on the Applications Enhancements dialog box (Figure 14.7).
- 2 Click **Apply**.
- 3 To configure additional settings, click **Properties** (Figure 14.7).

The Popup Prevention Settings window appears. It contains three tabs: **Settings**, **Allow**, and **History**. See Figure 14.9 and Figure 14.10.

Figure 14.9 Popup Prevention Settings: **Settings** and **Allow** Pages

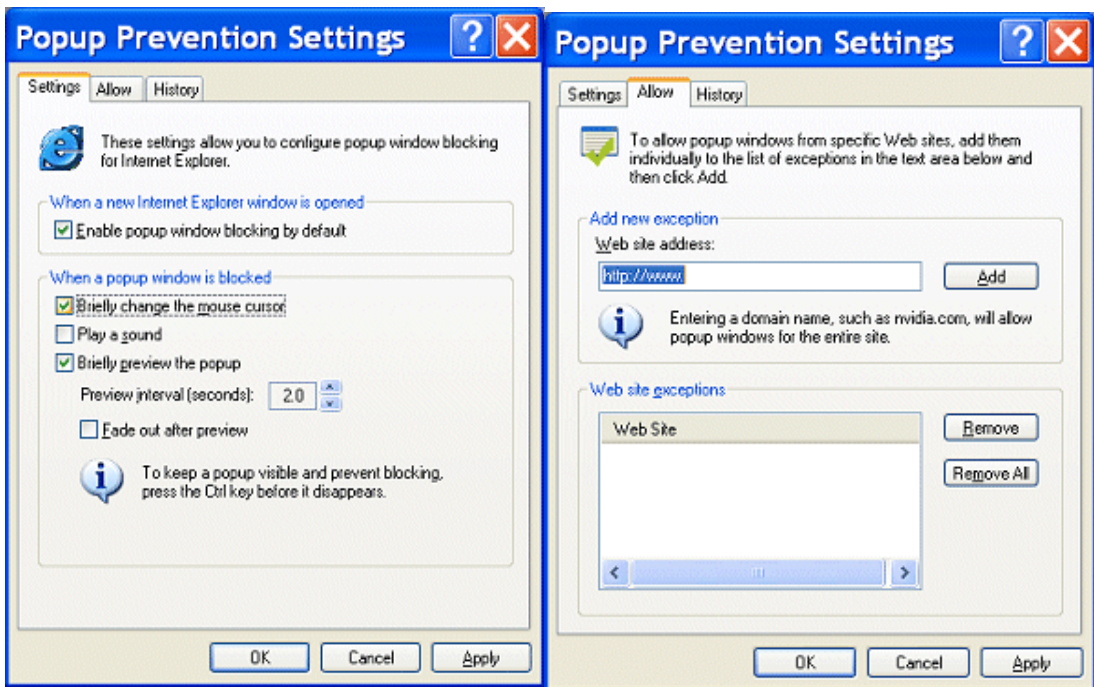
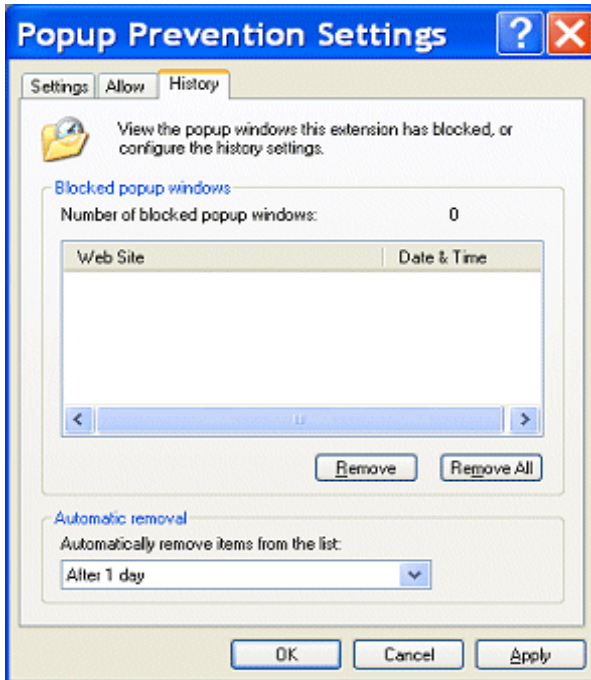


Figure 14.10 Popup Prevention Settings — History Page



- 4 Configure the settings in each of the pages by enabling options, etc., as you need.
- 5 Be sure to click **Apply** after making changes to the pages.
- 6 Click **OK** to return to the Application Enhancements page.

Note: These settings will now apply to any Internet Explorer session you open on your desktop.

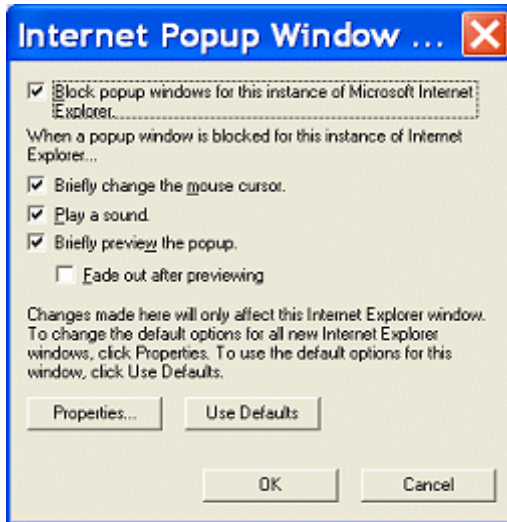
To apply settings to the *current session* of Internet Explorer while the window remains open, follow these steps:

- 1 From the Internet Explorer window, click the application title bar to access the nView options menu.

Note: If you don't see the nView options menu, that means you haven't yet added the nView options menu to your application title bar and/or system menus. To do so, see "Accessing nView Menu Options" on page 133.
- 2 Select the **Internet Explorer popup preventer extension** check box on the Applications Enhancements dialog box (Figure 14.7).

- 3 Again, from the Internet Explorer window, click the title bar to access the nView options menu.
- 4 Select the **Internet Explorer popup prevention** menu option and select **Edit** to open the Internet Popup Window dialog box (Figure 14.11).
- 5 Enable the settings you want and click **OK**.

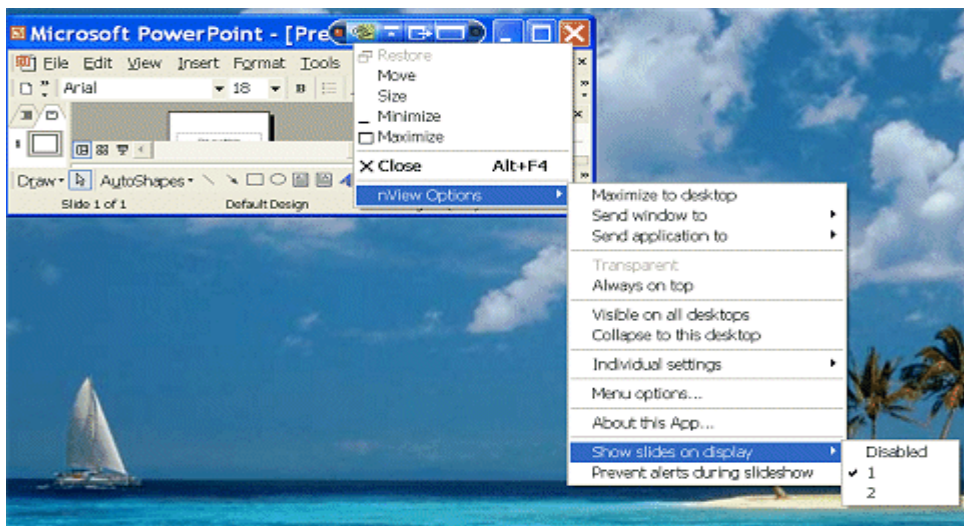
Figure 14.11 Internet Explorer Dialog Box



Add PowerPoint Slide Show Extension

When you select the **Add PowerPoint Side Show Extension** check box on the Application Enhancements dialog box (Figure 14.7), a new menu item labeled **Show slides on display *n*** (where *n* represents the display device) is added to the nView Desktop Manager options menu when you open the Microsoft PowerPoint 2000 or PowerPoint 2002 application (Figure 14.12).

Figure 14.12Microsoft PowerPoint-Specific nView Menu Options



Note: Once you select a display on which to show slides, future slide shows started from Microsoft PowerPoint will be shown on that display.

A P P E N D I X



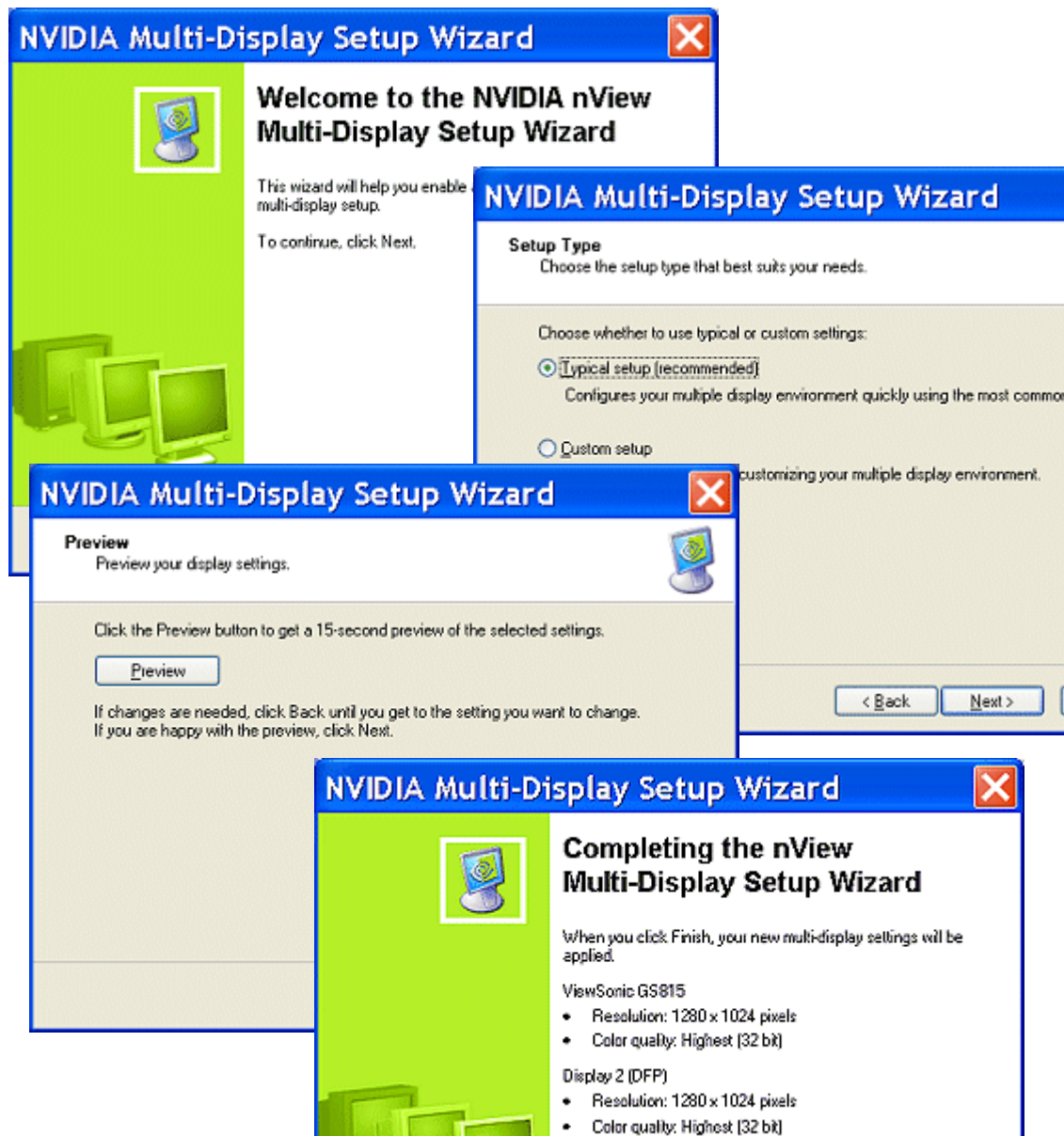
NVIDIA SETUP WIZARD PAGES

These sections contain the wizard pages in sequence for a few different display setups.

- “NVIDIA Display Wizard — Typical Setup” on page 211
- “NVIDA Display Setup Wizard — Custom Setup” on page 212
- “NVIDIA Display Wizard — HDTV Component Connection” on page 214
- “NVIDIA Display Wizard — Analog Display with HDTV/DVI” on page 216
- “NVIDA Display Wizard — Digital Display and Television” on page 219

NVIDIA Display Wizard — Typical Setup

Figure A.1 NVIDIA Display Wizard — Typical Setup



NVIDIA Display Setup Wizard — Custom Setup

Figure A.2 NVIDIA Display Setup Wizard — Custom Setup Pages (1)

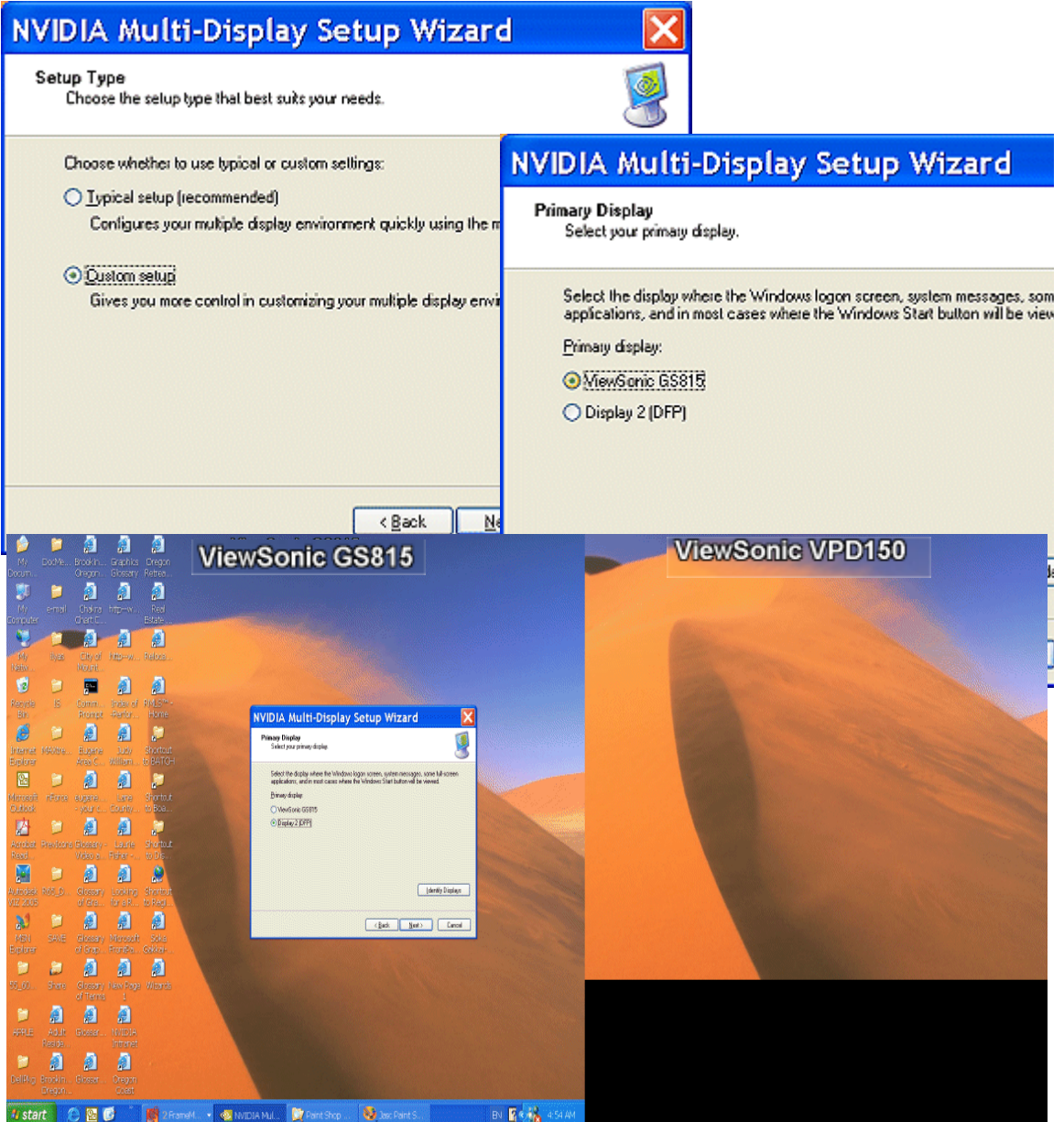
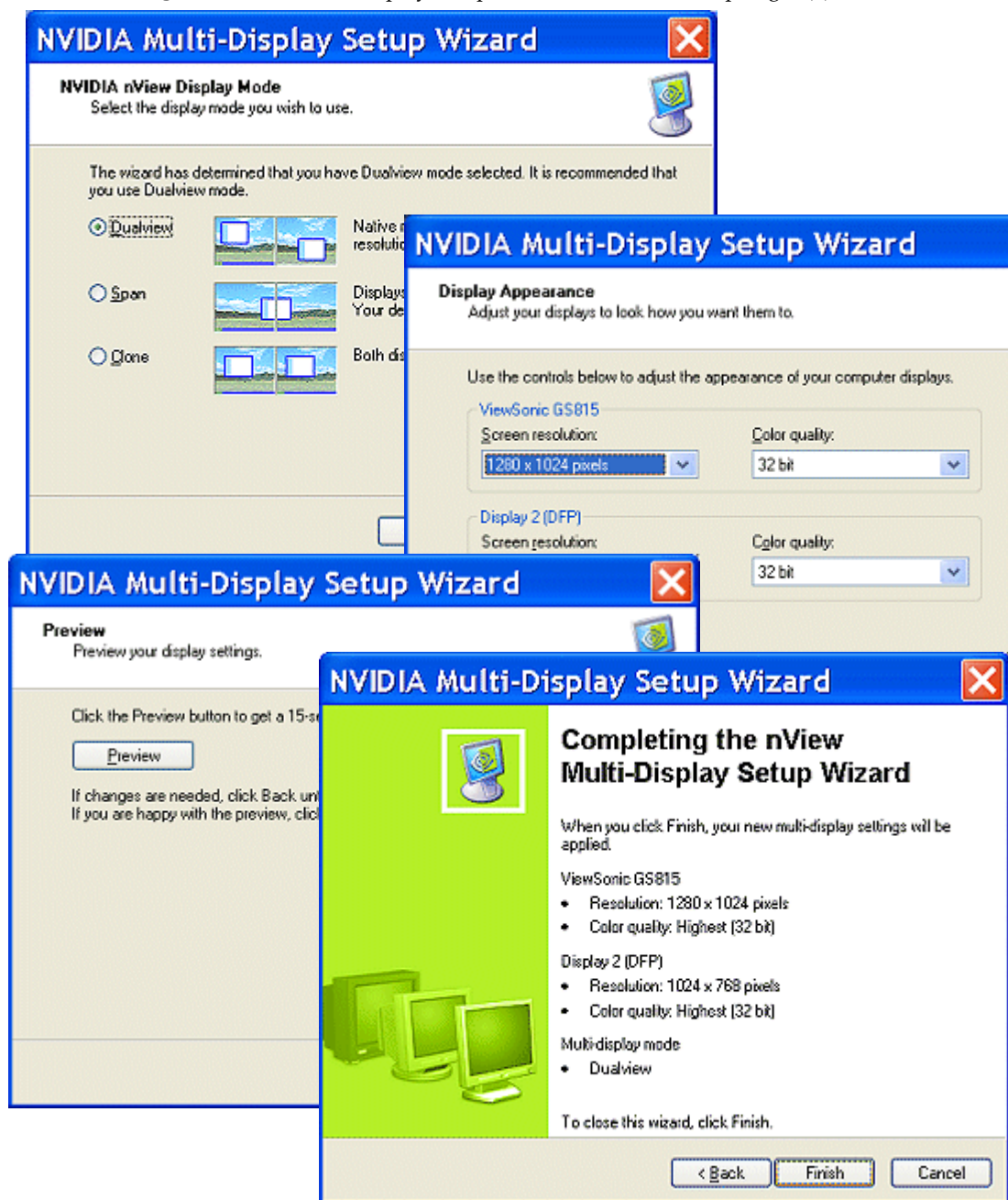


Figure A.3 NVIDIA Display Setup Wizard — Custom Setup Pages (2)



NVIDIA Display Wizard — HDTV Component Connection

Figure A.4 NVIDIA TV Display Wizard — HDTV Component Connection Page (1)

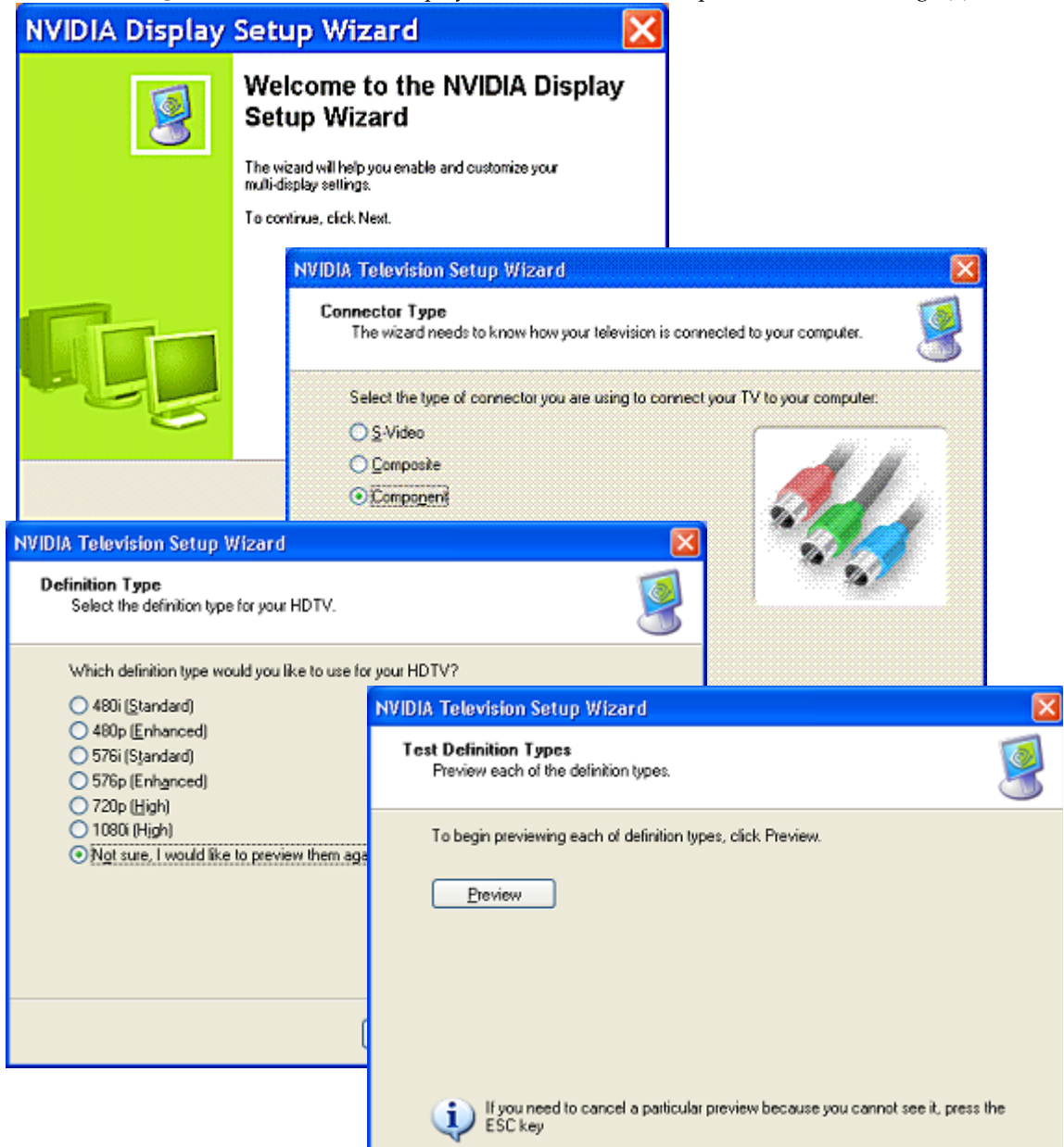
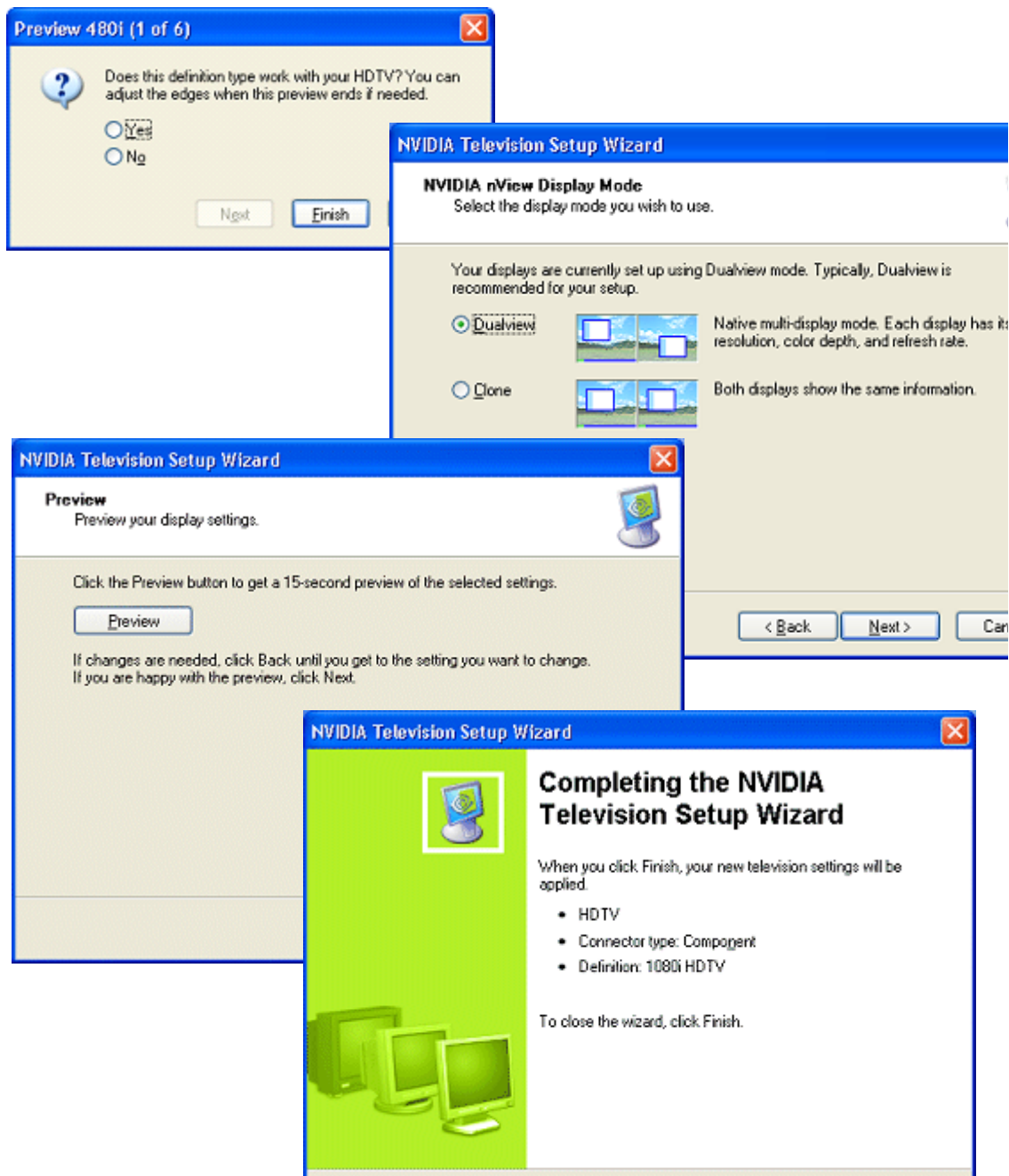


Figure A.5 NVIDIA TV Display Wizard — HDTV Component Connection Page (2)



NVIDIA Display Wizard — Analog Display with HDTV/DVI

Figure A.6 NVIDIA Display Wizard—Analog Display with HDTV/DVI Pages (1)

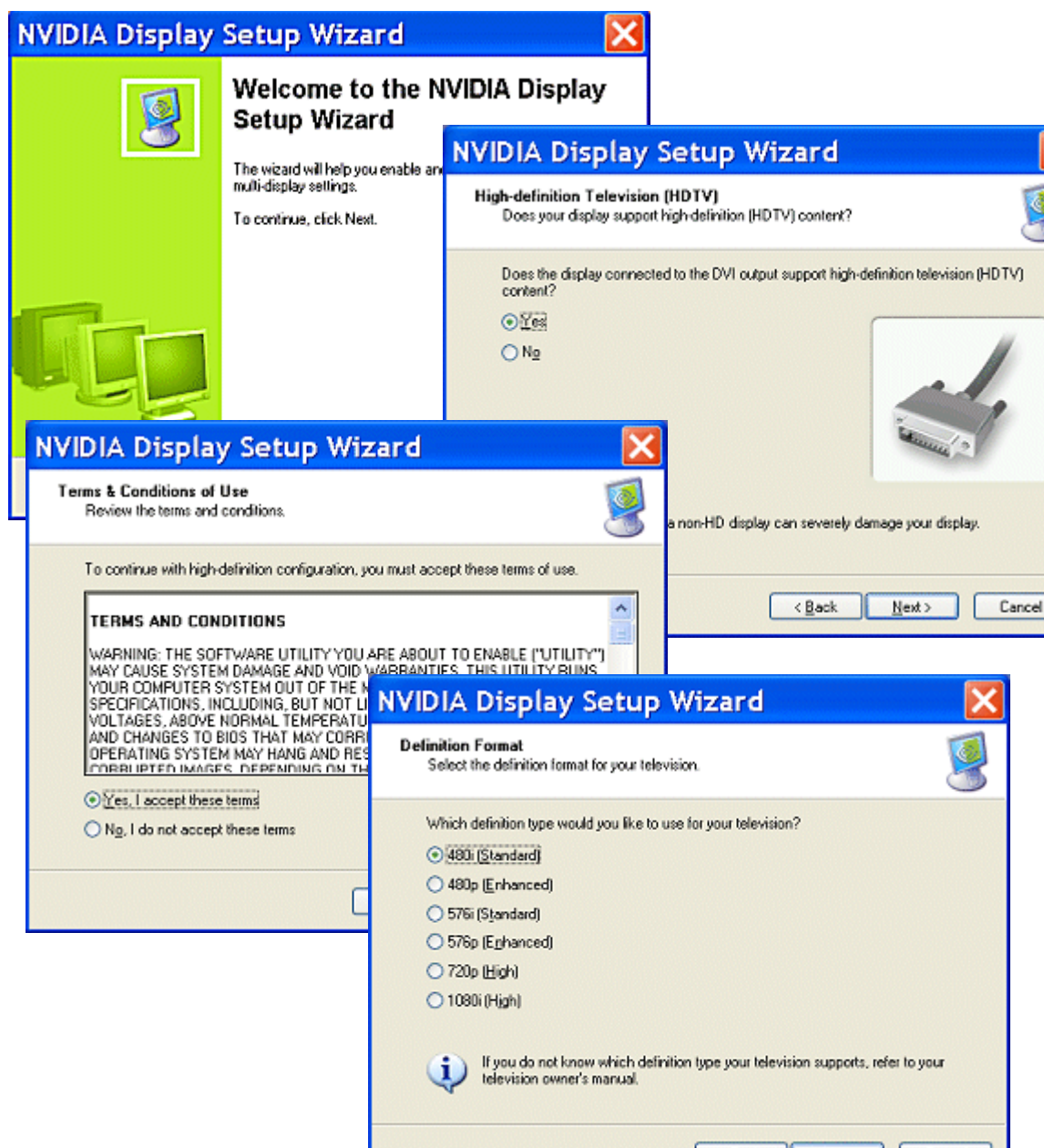
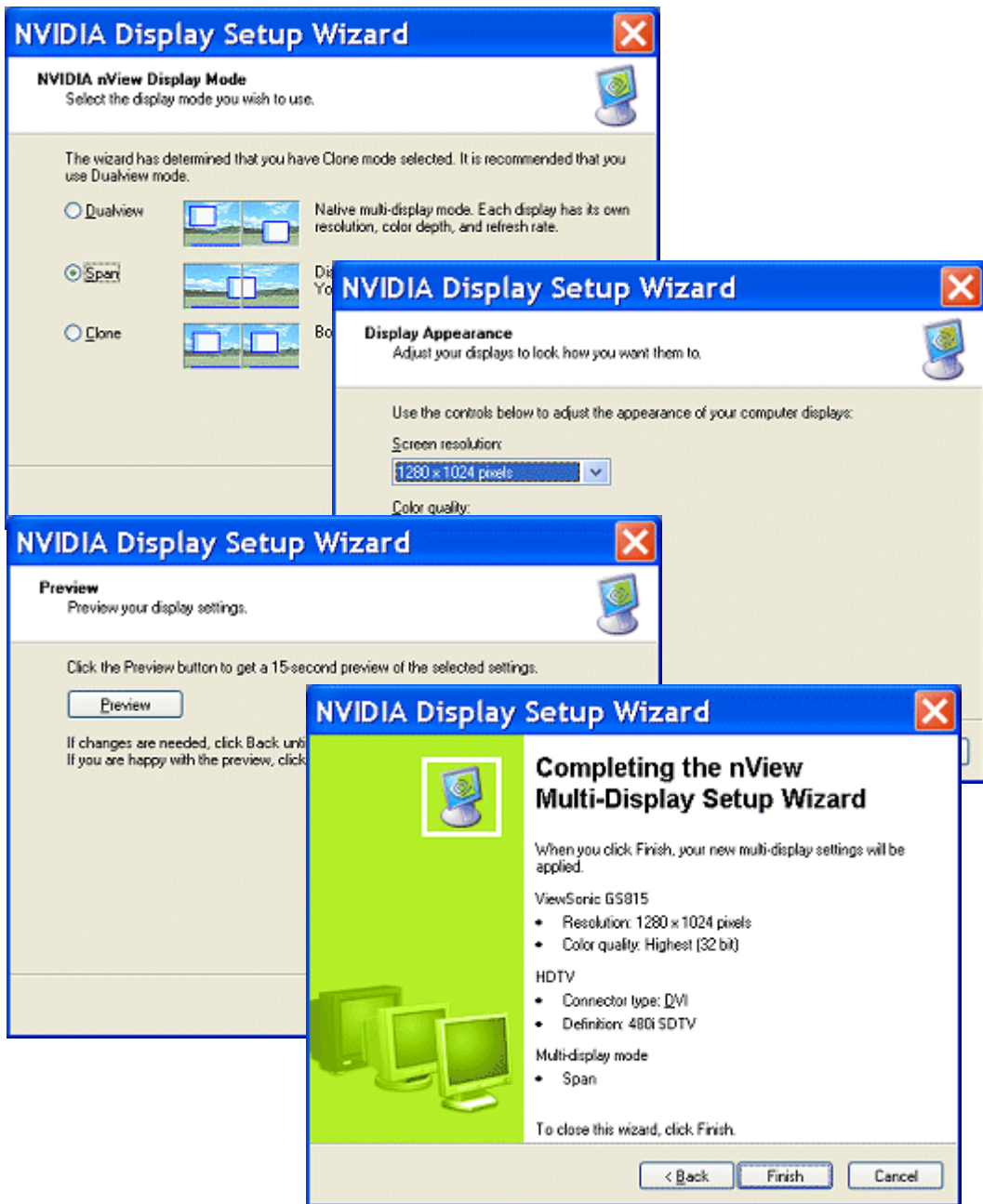


Figure A.7 NVIDIA Display Wizard—Analog Display with HDTV/DVI Pages (2)



NVIDIA Display Wizard — Digital Display and Television

Figure A.8 NVIDIA Display Wizard — Digital Display with TV Pages (1)

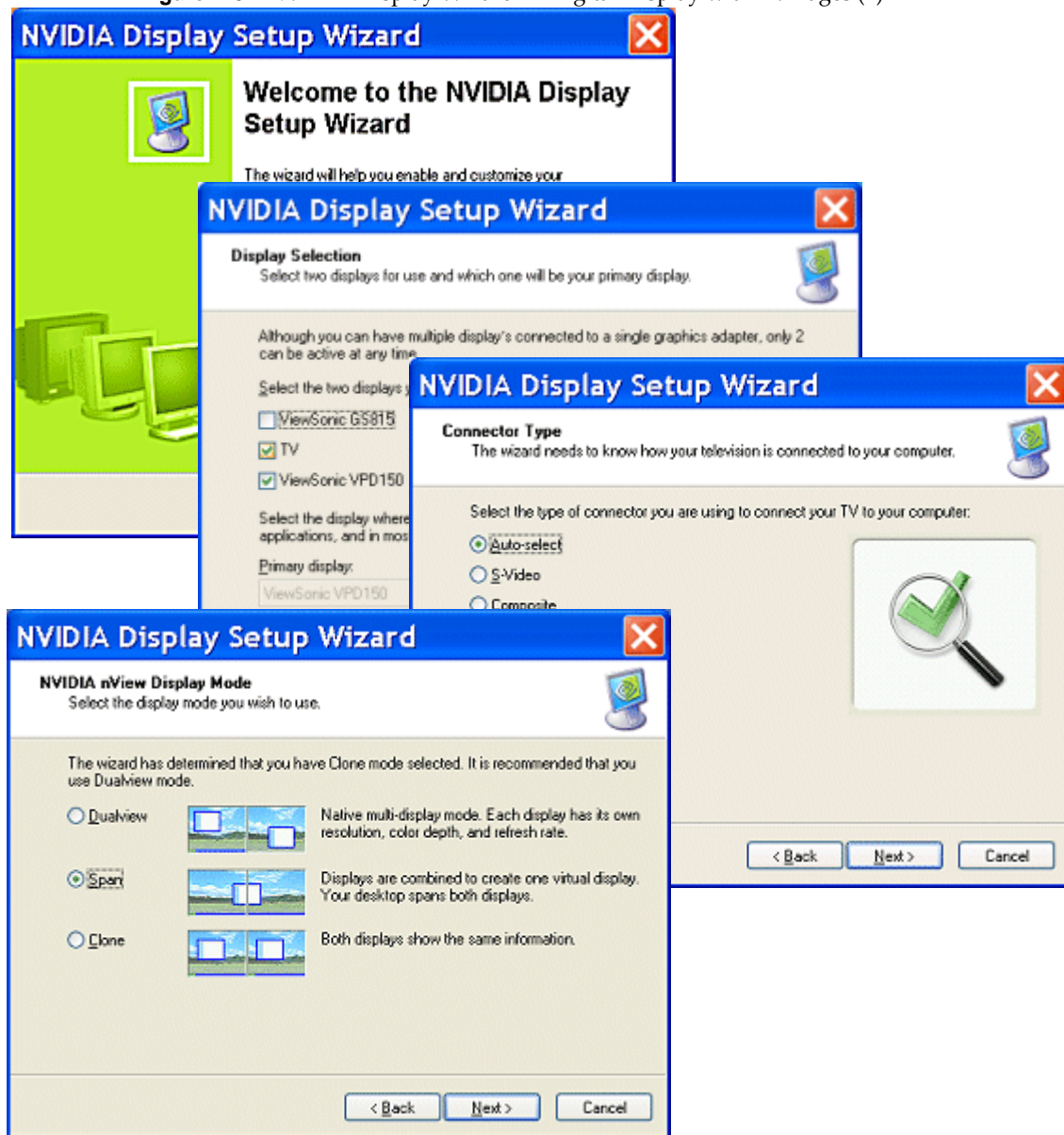


Figure A.9 NVIDIA Display Wizard — Various Types of TV Connectors

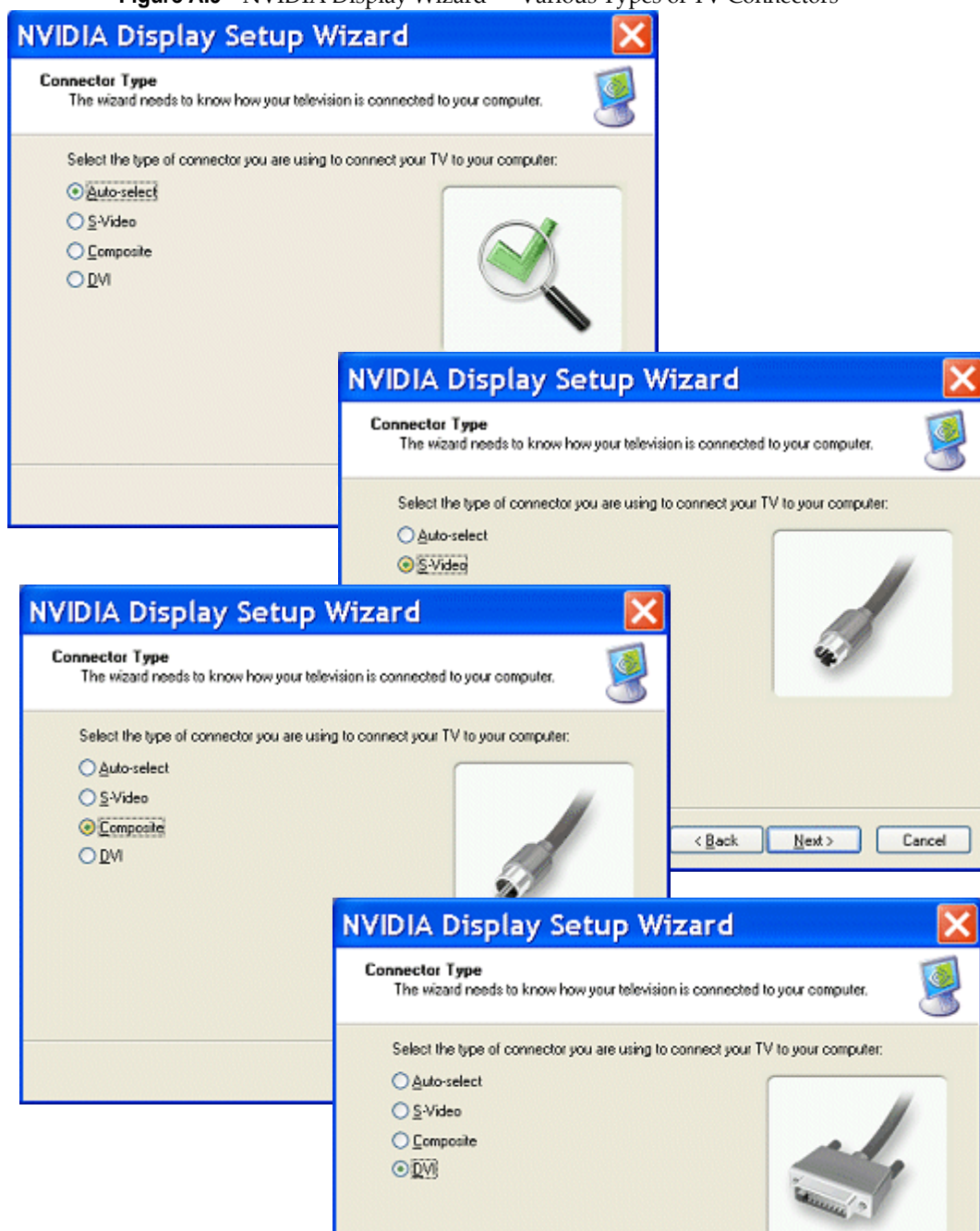
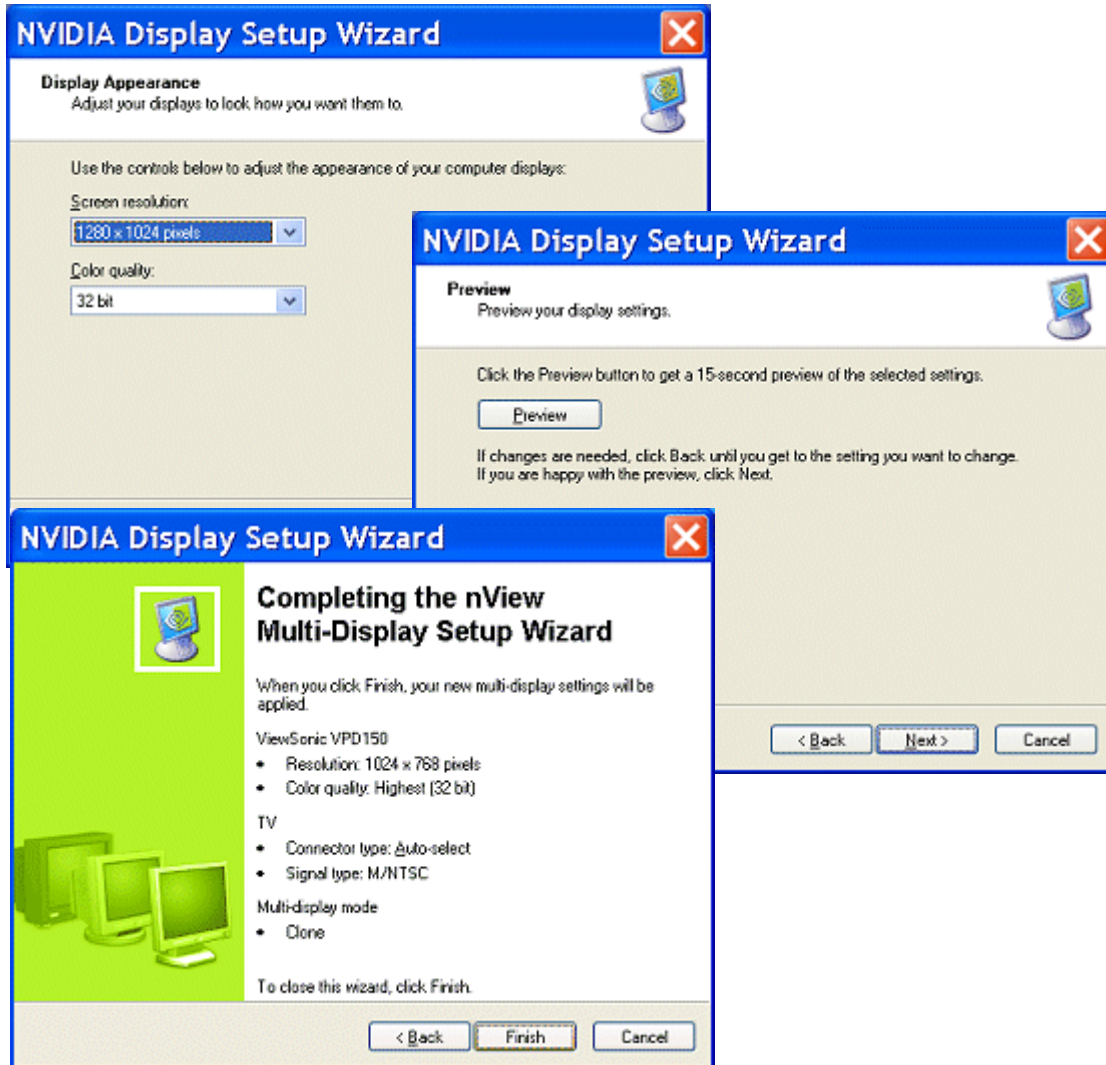


Figure A.10 NVIDIA Display Setup Wizard — Digital Display with TV Pages (2)



A P P E N D I X

B

NVIEW DESKTOP MANAGER FEATURE HISTORY

This chapter provides information on the previous releases of the NVIDIA ForceWare graphics driver and summarizes the features and enhancements that have been introduced in each release.

- “Driver Release History” on page 223
- “Release 90 Enhancements” on page 224
- “Release 90 Enhancements” on page 224
- “Release 80 Enhancements” on page 225
- “Release 75 Enhancements” on page 228
- “Release 70 New Features and Enhancements” on page 230

Driver Release History

Table B.1 contains a summary of some previous driver releases and the versions associated with them. Some versions listed may not have been released outside of NVIDIA.

Table B.1 NVIDIA Drivers for Windows

Driver	Name	Versions	Comments
Release 160	ForceWare		
Release 95	ForceWare	95.97 - 97.02	
Release 90	ForceWare	91.28 - 91.36	
Release 80	ForceWare	81.82, 81.84, 81.85, 81.87, 81.94, 81.95, 81.98, 82.12, 82.14, 83.40 84.12, 84.20, 84.21, 84.25, 84.43	
Release 75	ForceWare	77.72, 77.76, 77.77, 78.01, 78.05	
Release 70	ForceWare	71.84, 71.89	
Release 65	ForceWare	66.77, 66.93, 67.02, 67.03, 67.66	
Release 60	ForceWare	61.76, 61.77	
Release 55	ForceWare	56.64, 56.72, 57.30	
Release 50	ForceWare	52.16, 53.04	
Release 40	Detonator FX	44.03–45.xx	
Release 40	Detonator 40	40.60–44.02	
Release 35	Detonator 35	35.60–37.80	
Release 25	Detonator 25	26.00–32.90	
Release 20	Detonator XP	21.83–23.xx	
Release 10	Detonator 3 v1x.xx	10.00–17.xx	

Release 90 Enhancements

Release 90 provides these new features and improvements:

- Establishes the new NVIDIA Control Panel as the recommended user interface.
- Includes several PureVideo improvements.
- Increased stability and performance.

OpenGL

The following extension has been added:

- `WGL_NV_gpu_affinity`

Video

Release 90 includes the following new PureVideo features and improvements:

Video Processing Improvements

Release 90 includes several PureVideo technology improvements¹:

- Added noise reduction post processing
- Added image sharpening post processing
- Improved inverse telecine algorithm
- Improved de-interlacing algorithm
- Improved compatibility with third party MPEG-2 decoders

New Features—Available Only in the New NVIDIA Control Panel

- Color Temperature Correction
 - Allows users to compensate for monitor gamut differences
 - Enhances color correctness of video
- Video Gamma Enhancement to include RGB gamma adjustment

1. Video processing improvements are seen in higher HQV benchmark scores.

- RGB Gamma for VMR9
- Allows users to tweak gamma in channels separately
- For both Overlay and VMR9

Control Panel

Release 90 introduces the new NVIDIA Control Panel as the recommended interface. The new interface provides intuitive navigation of NVIDIA display property controls, and will be the interface for other NVIDIA software.

While the Classic Control panel is still available, no changes or new features will appear in that interface.

Release 80 Enhancements

This document provides a summary of the new features and enhancements provided with the NVIDIA ForceWare Release 80 graphics drivers for Windows. The changes are described in the following sections:

- [“New Feature Highlights” on page 225](#)
- [“Additional Details by Driver Module” on page 226](#)

New Feature Highlights

NVIDIA SLI™ Technology Enhancements

- Dynamic Enable/Disable Capability — System reboot is no longer required after enabling or disabling SLI technology from the control panel.
- Cross-card compatibility — SLI technology no longer requires graphics cards to be identical, however, they must still have the same core GPU.
- SLI technology performance without an SLI (bridge) connector *on selected graphics cards for the mainstream market*
- Improved SLI technology performance and a streamlined list of application profiles for OpenGL
- TV/HDTV support under SLI technology
- Ability to select the display to use for the output

NVIDIA PureVideo™ Enhancements

- Improved inverse 3:2 and 2:2 pulldown
- Improved adaptive deinterlacing

Support for the Next Generation of NVIDIA GPUs

The Release 80 driver supports the next generation GPUs as well as the new integrated GPU.

Additional Details by Driver Module

nView Desktop Manager

Release 80 offers the following new nView Desktop Manager features and updates:

- TV/Display Wizard Enhancements
High-definition mode setup includes a preview mode, and full-screen underscan adjustment.
- nView Desktop Manager functionality, including multi-display, is available from a Remote Desktop.
- Support of MultiView for Windows XP x64.
- Ability to cycle through HDTV formats using hot keys

Display Driver

- Support for the next generation of GPUs
- Improved 2D performance
- Coordinates with the NVPanel to support dynamic SLI technology enabling/disabling

DirectX

New Features

- Support for the next generation of GPUs
- Support for dual-core CPUs

Improvements

Release 80 offers improved DirectX stability and performance for:

- NVIDIA TurboCache™
- 512 MB Cards
- Multi-display support under Windows MCE
- Windows XP x64
- CPU overhead reduction

OpenGL

New Extensions

- NV_packed_depth_stencil
- ARB_pixel_buffer_object
- GL_NV_timer_query

Performance Improvements

- Improved performance under Dualview
- Improved memory management for multiple open applications on Quadro workstation cards
- Improved performance with multiple overlapping windows
- Improved SLI technology performance
- Support for dual core CPUs
- Increases Doom3 performance
- Support for the next generation of GPUs

Video

Release 80 includes the following new PureVideo features and improvements:

- Improved inverse 3:2 implementation
- Improved inverse 2:2 implementation
- Adaptive Deinterlacing for HD content on high-end GeForce 6 Series GPUs
- PureVideo support for the next generation of GPUs

NVIDIA Control Panel

Classic NVIDIA Control Panel Enhancements

- HDTV Overscan compensation support — Includes X-Y adjustment, and independent front-end timing adjustment features
- Dynamic SLI technology enable/disable capability

New Independent Panels

- **MCCS Panel**— Allows direct access to DDC/CI display controls on monitors that support it.
- **New style of NVIDIA Control Panel** — Provides intuitive navigation of NVIDIA display property controls.

Release 75 Enhancements

OpenGL Enhancements

- Support for OpenGL 2.0 Specification
- New extensions:
 - ARB_draw_buffers
 - ARB_color_buffer_float
 - ARB_half_float_pixel
 - ARB_texture_float

SLI Technology Support Improvements

- SLI technology support for OpenGL workstation applications with Quadro-based PCI-Express graphics cards.
- Improved SLI technology performance for DirectX applications

Control Panel Interface Changes

- Added a triple-buffering option for improved frame rates
- Combined DirectX and OpenGL application profiles on one page

Additional Details by Driver Module

Display Driver

- Improved high-resolution scalable desktop functionality
- Improved support for custom timings, including non-divisible by 8 resolutions on TMDS/LVDS panels, control of back-end and front-end timings, and variable overscan shift values.

The driver can also present underscan modes on demand, and supports variable underscan ratios.

- Off-screen 2D Memory Management Optimization
- Efficient synchronization between clients allows for sharing of off-screen resources with DirectX applications. This avoids potential performance issues with applications that use DirectX rendered surfaces in ways that conflicted with 2D caching.
- Color compression support
- CVT Support
- User option for analog monitors
- Support for CVT/CVT-RB timing restriction using R&T strings
- SLI technology enhancements
- SLI technology screen capture support
- Improved performance

DirectX

Improved driver stability and performance, including the following areas:

- UMA support
- 2D operations
- SLI technology

NVIDIA Display Control Panel

Release 75 includes enhancement to the following sections of the NVIDIA display control panel user interface:

- **Application Profiles** — All application profiles, including workstation applications, are combined onto the same application profiles page.

- **Underscan Support.** Underscan support is added for full screen overlay and full screen video mirror outputs.

nView Desktop Manager

Release 75 no longer supports the nView Display Wizard for Windows NT 4.0, and NVKeystone for Windows 98/Me. The driver does include enhancement to the following nView Desktop Manager sections:

- **TV/Display Wizard** is enhanced to make HDTV setup easier. Each high-definition mode can be previewed to determine the capabilities of the flat panel.
- **Desktop Manager setting** — Release 75 lets you create system-wide nView Desktop Manager settings that apply across all users.
- **Per-display desktops** — Release 75 brings support for independent per-monitor virtual desktops to nView Span mode and Multiview environments.

Release 70 New Features and Enhancements

Overview

- **Desktop Manager Wizard Improvements**
 - **Improved Setup Wizard** for display monitor, television, and **high definition television (HDTV)**.
 - **New hot keys**—“Toggle stereo 3D display” and “Transparent desktop lock”
- **Support for Newest GeForce 6 Series GPUs** — All driver modules within Release 70 support the latest GPUs from the NVIDIA GeForce 6 Series.

The Release 70 graphics driver also supports the TurboCache™ memory management architecture of the GeForce 6200 GPU.

- **Improved Video Functionality** — Improved video functionality includes scaling for the newest GeForce 6 Series GPUs, and improved de-interlacing.
- **New Setup Wizards** — The Release 70 driver provides custom setup wizards for monitor and television displays.
- **Control Panel Interface Improvements**
 - Improved HDTV-over-DVI User Interface, and support for arbitrary overscan/underscan for HDTV-over-DVI

- Improved pages—Driver Information Screen, Advanced Timings, Change Resolutions
- New property pages - SLI Technology (available with NVIDIA SLI technology-based graphics cards) and Tools.

New features—**Play On My Display**, **Best fit scaling** option, and ability to rename the monitors in the display menu on the nView Page.

Details by Driver Module

nView Desktop Manager

New Features

- “Toggle Stereo 3D Display” hot key
- “Transparent Desktop Lock” hot key
- Improved compatibility with Windows Remote Desktop, Windows XP SP2, Windows XP 64-bit Editions, and Windows Media Center Edition.
- New **Display Optimization Wizard** (Display Calibration, Gamma)

Feature Enhancements

- **nView Desktop Manager Wizard**
 - Improved layout and usability of the wizards.
 - Improved television and HDTV support in the setup wizards and TV Wizard.
 - New **Display Optimization Wizard** (Display Calibration, Gamma)
- **Profiles** — .tvp file association: manage/load profiles from Windows Explorer
- **Hot Keys** enhancements include:
 - Consolidation of some actions, providing fewer hot keys and increased functionality
 - New hot keys: Activate Last Active Desktop, and Show Last Blocked Popup
- **nView Toolbar** — Added drag-n-drop window management to the display toolbars.
- **Gridlines** — New gridline creation tools to insert preset rows and columns
- **Internet Explorer Popup Preventer**—Sensitivity Adjustment
- **Window Management** — New setting to open window on next empty display

NVManagement

Improved functionality in response to customer feedback. The NVManagement application includes new switches for scripting driver settings.

Driver Independence

For ForceWare graphics drivers Release 50 and later, any nView version can be installed over any driver version.

Display Driver, DirectX, and OpenGL

Table B.1 Release 70 Graphics Driver — Performance Improvement and New Features

	Display Driver	DirectX	OpenGL
Performance Improvements	<ul style="list-style-type: none"> Improved stability and robustness Improved NVIDIA SLI technology multi-GPU functionality Support for 512 MB graphics cards HDTV-over-DVI functionality 	<ul style="list-style-type: none"> Improved robustness Multi-GPU refinements Improvements in <ul style="list-style-type: none"> - Texture management - SRGB handling - Anisotropic filtering 	Improved workstation performance for OpenGL applications.
New Features	<ul style="list-style-type: none"> Support of the unified memory architecture of the latest GeForce 6 series of GPUs. Support of the latest GeForce 6 series of GPUs. Support of the TurboCache memory management architecture of the latest GeForce 6200 series GPUs. TurboCache dynamically allocates system memory to augment the frame buffer, resulting in increased memory bandwidth. 	Support of the unified memory architecture of the latest GeForce 6 series of GPUs.	Support of the latest GeForce 6 series of GPUs.

For details on using these features, see the *NVIDIA ForceWare Graphics Driver: User's Guide — Release 70* driver version.

- **Improved NVIDIA display slideout menu** layout and functionality. The menu automatically resizes to fit content when you first launch the NVIDIA display control panel. You can also resize the slideout menu by dragging the window border. See chapter 3 — “[NVIDIA Control Panel Access](#)” on page 35.
- **Improved EDID** [Extended Display Identification Data] **display names** in the control panel, desktop menus, and APIs are more descriptive than the previous “Digital” and “Analog” display designators. See “[Desktop Management Page — nView Desktop Manager Version Information](#)” on page 40.
- **Rename displays** — You can now rename your displays from the nView Display Settings page.
- **Play-On-My-Display** — Right-click on the pop-up menu item to play video files on any connected display.

- **Tools** page — provides options for shortcuts, display optimizations, and troubleshooting. The Tools page replaces the Release 65 Troubleshooting page.
- **Improved Driver Information and Change Resolutions** pages.
- **Application profiles can include “color settings”** — You can now associate application-specific color settings (Digital Vibrance, Brightness, Contrast, Gamma, etc.) with video games.
- **Improved HDTV-over-DVI** user interface and support for arbitrary overscan/underscan for HDTV-over-DVI.
- **Variable “Underscan” and “Shift Threshold”** — The HDTV Overscan Configuration page now lets you adjust the HDTV underscan and overscan (“shift threshold”).
- **Show HDTV display formats** option on the Change Resolutions page lets you add and remove standard EIA 861b HD modes and enables HD over DVI.
- The **Advanced Timings** page now lets you modify the X and Y resolution to create a custom mode. Custom modes creation and advanced timings adjustments are combined on one page.
- **Improved SLI technology multi-GPU mode pages** — available with NVIDIA SLI technology graphics cards intended for use by *advanced users*.

For details, see the document “*Application Note — Using NVIDIA SLI Technology Graphics Cards*” Version 2.0 or later.

Video

New video processing features include:

- Windows Media Video 9 (WMV9) video acceleration — support for hardware accelerating decoding WMV9 video files on GeForce 6 series GPUs. To enable this feature, a software update from Microsoft is required.

Video processing improvements include:

- Video scaling implementations to support the newest GeForce 6 series GPUs.
- Motion adaptive de-interlacing

Color management improvements include:

- Color space conversion and processing amplifiers
- Extended color range
- Color temperature correction

A P P E N D I X



GLOSSARY

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

analog display

Analog display refers to your CRT display, in general. The terms CRT and analog display may be used interchangeably in this guide.

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 (Windows)

You can access the **Windows Control Panel** window by clicking **Start > Settings > Control Panel** from the Windows desktop taskbar.

Control Panel (NVIDIA)

The NVIDIA Control Panel is designed for Microsoft Windows XP and Windows Vista. You can use NVIDIA Control Panel to configure your NVIDIA hardware and access other NVIDIA software installed on your system. For details on using the NVIDIA Control Panel, refer to the *NVIDIA Control Panel Quick Start Guide*.

Control Panel (NVIDIA nView Desktop Manager)

The NVIDIA nView Desktop Manager control panel ([Figure 3.5](#)) refers to the nView Desktop Manager application properties page, which consists of tabbed pages that allow you to configure the entire range of nView Desktop Manager features.

desktop

Desktop is your Windows on-screen work area on which windows, icons, menus, and dialog boxes appear.

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.

digital display

A digital display can be a digital flat panel (DFP) or, for example, a mobile (laptop or notebook) computer's LVDS internal display panel.

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 processor products are called GPUs.

Refer to the Release Notes document and NVIDIA driver download site for the list of products supported by the Release 160 driver version that is installed on your computer.

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 188](#).

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 can move a modal dialog box but cannot reposition it

behind other application windows. You cannot make a modal dialog box inactive. You can only close the dialog box by clicking one of its buttons.

modeless dialog box

You can move a modeless dialog box, make it inactive and active again, and close it.

multiple-graphics 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.

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 control 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 195](#).