



FLEXERA SOFTWARE™

AdminStudio®

AdminStudio 9.5 ZENworks Edition Release Notes

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Introduction

For Novell ZENworks Configuration Manager (ZCM) 10 customers, Flexera Software, Inc. and Novell have agreed to provide the AdminStudio Standard Edition, the basic version of the AdminStudio solution, at no additional cost to ZCM 10 customers. AdminStudio Standard Edition provides a cost-effective way for software packagers to migrate applications to Windows Installer. It enables control over MSI packaging, customization, and distribution activities, helping organizations rapidly and reliably package and deploy applications. For customers who require more than entry-level functionality, AdminStudio Professional and Enterprise Editions all include functionality to handoff packages to Novell ZENworks Configuration Manager (ZCM) 10. Visit the [Novell Web site](#) for more details.



Note • In October 2009, Aceso Software changed its name to Flexera Software, Inc. AdminStudio 9.5 includes the new name Flexera Software. The AdminStudio Editor features functionality from InstallShield 2010 Service Pack 1. Because InstallShield 2010 Service Pack 1 was released prior to the name change, it still contains references to Aceso Software. In future releases, all logos and trademarks will be Flexera Software. The current logos and trademarks cause no issues for users of AdminStudio 9.5.

Components

In addition to the ZENworks Edition, AdminStudio 9.5 is also available in Standard, Professional, and Enterprise Editions. This section lists the AdminStudio components that are included in each Edition.

- [ZENworks Limited Edition](#)
- [Standard, Professional, and Enterprise Editions](#)
- [Virtualization Pack](#)
- [Edition Comparison Chart](#)

ZENworks Limited Edition

AdminStudio has different versions for users of Novell ZENworks 7 versus ZENworks Configuration Manager (ZCM) 10.

ZENworks Edition for ZENworks 10 Users

The AdminStudio ZENworks Edition for Novell ZENworks Configuration Manager (ZCM) 10 customers includes all of the features of AdminStudio Standard Edition, the basic version of the AdminStudio solution. For more information, see [Standard Edition](#).

ZENworks Edition for ZENworks 7 Users

AdminStudio 9.5 ZENworks Edition is a customized version of AdminStudio that allows system administrators to rapidly prepare reliable Windows Installer (.msi) software packages for distribution across their enterprises. AdminStudio enables companies to take full advantage of the benefits of Windows Installer and reduces total cost of ownership by simplifying the installation, customization, and management of applications. AdminStudio 9.5 ZENworks Edition includes the following components:

- **Repackager**—Use to repackage and convert Novell ZENworks projects (.axt/.aot) into Windows Installer packages. Full Repackager functionality is provided, except for InstallScript MSI Conversion.
- **Distribution Wizard (Customized for ZENworks)**—Prepare a Windows Installer package for distribution on a ZENworks Configuration Management Server, via ZENworks desktop application distribution, or via ZENworks server distribution.
- **Tuner**—You can use Tuner to quickly create transforms (.mst), including Response File transforms, to customize software already in the Windows Installer format and automatically validate that any changes conform to Microsoft guidelines.

Standard, Professional, and Enterprise Editions

AdminStudio 9.5 is also available in the following Editions:

Edition	Components
Standard	<p>Standard Edition provides basic repackaging and editing capabilities. Standard Edition includes:</p> <ul style="list-style-type: none"> ● Repackager ● Distribution Wizard ● FLEXwrap ● InstallShield 2010 SP1 ● Tuner ● Application Isolation Wizard ● Configuration Manager Web Console (Limited)
Professional	<p>The Professional Edition is designed for professional packagers. It includes application management, testing, and conflict resolution tools, as well as additional distribution options. Professional Edition includes all of the Standard Edition tools plus the following additional components:</p> <ul style="list-style-type: none"> ● ConflictSolver ● Application Manager ● OS Snapshot Wizard ● QualityMonitor ● Predeployment Test ● Configuration Manager Web Console (Full)
Enterprise	<p>The Enterprise Edition is the enterprise-class solution. It includes Web-based server access with additional security, reporting, and automation tools. Enterprise Edition includes all Professional Edition tools plus the following additional components:</p> <ul style="list-style-type: none"> ● PackageExpert ● OS Security Patch Wizard ● Job Manager ● Report Center ● Software Repository ● Security Console

Virtualization Pack

The AdminStudio Virtualization Pack provides Microsoft Application Virtualization (App-V), VMware ThinApp, and Citrix XenApp virtualization support as add-on features. The following additional components are available:

- Microsoft App-V Assistant
- ThinApp Assistant
- Citrix Assistant
- Windows Installer Converter

Edition Comparison Chart

To learn more about the AdminStudio Virtualization Pack, AdminStudio Enterprise Edition, AdminStudio Professional Edition, and AdminStudio Standard Edition, see the following comparison chart:

<http://www.flexerasoftware.com/products/as/adminstudio-features.htm>

New Features

AdminStudio 9.5 ZENworks Edition includes new features in the following categories:

- [InstallShield 2010 SP1](#)
- [Repackager Enhancements](#)

InstallShield 2010 SP1

AdminStudio 9.5 ZENworks Edition for ZENworks 10 users includes InstallShield 2010 SP1, which offers many new features and enhancements that will help you use the latest technologies and save time on everyday tasks. InstallShield 2010 SP1 includes the following new features and enhancements:

- [Ability to Target Windows 7 and Windows Server 2008 R2 Systems](#)
- [Microsoft SQL Server 2008 SP1 Support](#)
- [Windows Installer 5 Support](#)
- [Improved User Interface](#)
- [New String Editor View](#)
- [New View for Configuring Run-Time Text File Changes](#)
- [New Tool for Scanning an IIS Web Site, Recording Its Settings, and Importing Those Settings into an InstallShield Project](#)
- [Ability to Add IIS Web Applications to Web Sites, Plus Other IIS-Related Improvements](#)
- [Support for InstallShield Prerequisites in InstallScript Projects](#)
- [Ability to Detect the Presence of a Virtual Machine](#)
- [New Support for Setting Permissions for Files, Folders, and Registry Keys](#)

- Unicode Support
- Support for 64-Bit COM Extraction
- New InstallShield Prerequisites
- New Billboard Support in Basic MSI Projects
- Expanded Billboard Support in InstallScript and InstallScript MSI Projects
- Support for HTML Controls on Dialogs During InstallScript and InstallScript MSI Installations
- Support for Specifying Action Progress Messages
- Setup.exe Manifests Now Have Compatibility Section to Avoid Triggering Program Compatibility Assistant on Windows 7 and Windows Server 2008 R2 Systems
- Updated Visual Studio Merge Modules
- Windows Installer 5 Support for Configuring New Customization Options for Windows Services, Plus Other Service-Related Improvements
- Validation for the Windows 7 Logo Program
- Windows Installer 5 Support for Setting Windows Shell Properties for a Shortcut
- Ability to Specify a Custom .png Shortcut Icon for the Start Screen on Windows Mobile 6.5 Professional–Powered Devices
- Windows Installer 5 Support for the MsiPrint and MsiLaunchApp Control Events
- Windows Installer 4.5 Prerequisites for Windows Vista Systems
- Dependency Scanning and COM Extraction Now Exclude Protected Windows 7 Files and Registry Entries

Ability to Target Windows 7 and Windows Server 2008 R2 Systems

InstallShield now enables you to specify that your installation requires Windows 7 or Windows Server 2008 R2. It also lets you build feature and component conditions for these operating systems.

Microsoft SQL Server 2008 SP1 Support

InstallShield now includes support for running SQL script on SQL Server 2008 SP1. In addition, InstallShield includes SQL Server 2008 SP1 in the predefined list of database servers that you can select when you are specifying in the SQL Scripts view the target database servers that your product supports.

Windows Installer 5 Support

Windows Installer 5 is available with the releases of Windows 7 and Windows Server 2008 R2. With InstallShield 2010's own implementation of Windows Installer 5 features, you can take advantage of the new Windows Installer 5 functionality, including:

- **Support for Per-User Installations**—The General Information view has a new Show Per-User Option setting. This setting lets you specify whether you want the **ReadyToInstall** dialog—in certain scenarios—to include buttons that let end users indicate how they want to install the product: for the current user or for all users. The per-user button sets the new Windows Installer property `MSIINSTALLPERUSER` equal to 1 to indicate that the package should be installed for the current user.
- **Support for Reducing the Time for Installing Large Packages**—Use the new Fast Install setting in the General Information view to select one or more options that may help reduce the time that is required to install a large Windows Installer package. For example, you can specify that you do not want a system restore point to be saved for your installation. You can also specify that you want the installation to perform file costing, but not any other costing. This setting configures the new Windows Installer property `MSIFASTINSTALL`, which can be set at the command line.
- **Support for Additional Windows Installer Features**—The Director Editor in InstallShield includes support for the new Windows Installer 5 tables (`MsiLockPermissionEx`, `MsiServiceConfig`, `MsiServiceConfigFailureActions`, and `MsiShortcutProperty`).

Improved User Interface

InstallShield user interface enhancements include new toolbars and views, customizable grids, and dynamic search tools. Highlights include:

- **Direct Editor view**—When you select a table in this view, a new toolbar is displayed. The toolbar has buttons that let you add, cut, copy, paste, find, and replace data in the table. This view also has support for dynamic searches—as you are typing a string in the search box, InstallShield hides all of the table records that do not contain it. When you are adding or editing a record, InstallShield displays help text for each field.
- **Property Manager view**—This view contains a new toolbar that has buttons for performing tasks such as adding and deleting properties. This view also has support for dynamic searches—as you are typing a string in the search box, InstallShield hides all of the table records that do not contain it. The top of the view has a new group box area; you can drag and drop column headings onto this area to organize the rows in the view in a hierarchical format. You can now select multiple properties in this view (by using the mouse and the SHIFT or CTRL button) and then delete them all at once.
- **Redistributables view**—The new toolbar and the new group box area in this view provide robust search and organizational functionality. You can drag and drop column headings onto the group box area to organize the list of redistributables in a hierarchical format. In addition, you can type a string in the toolbar's search box, and InstallShield hides all of the redistributables that do not contain it.
- **Internet Information Services view**—This view has been redesigned to look similar to IIS 7: the settings are now displayed in grids, instead of on tabs. The grids have buttons that let you sort the grid settings by category or alphabetically. When you select a setting in one of the grids in this view, InstallShield displays help information for that setting in the lower-right pane.

- **General Information view**—All of the settings in this view are displayed in one grid, instead of as separate grids that are associated with nodes within this view. The settings are grouped into several categories to make it easy to find a particular setting. In addition, the grid has a button that lets you sort the grid settings by category or alphabetically. The string tables that were previously in this view have been moved to a new [String Editor](#) view.
- **Path Variables view**—This view contains a new toolbar that has buttons for performing tasks such as adding and deleting path variables. This view also has support for dynamic searches—as you are typing a string in the search box, InstallShield hides all of the rows that do not contain it. The top of the view has a new group box area; you can drag and drop column headings onto this area to organize the rows in the view in a hierarchical format.

New String Editor View

InstallShield has a new String Editor view. This view contains a spreadsheetlike table that shows the collection of language-independent identifiers and corresponding language-specific values for your project. In the String Editor view, you have complete and centralized control over the localizable text strings that are displayed at run time during the installation process. The view replaces the string tables that were previously available as nodes within the General Information view.

New View for Configuring Run-Time Text File Changes

InstallShield has a new Text File Changes view, which enables you to configure search-and-replace behavior for content in text files—for example, `.txt`, `.htm`, `.xml`, `.config`, `.ini`, and `.sql` files—that you want to modify at run time on the target system. The text files can be part of your installation, or they can be files that are already present on target systems.

You can use Windows Installer properties to specify the names of the text files that you want to include in or exclude from your search. You can also use properties to specify the search strings and the replacement strings. This enables you to use data that end users enter in dialogs, or other configuration information that is determined at run time, when your product's text files are modified on the target system. For example, if your project includes a dialog in which end users must specify an IP address, your installation can search a set of files for a token, and replace it with the IP address that end users enter.

New Tool for Scanning an IIS Web Site, Recording Its Settings, and Importing Those Settings into an InstallShield Project

InstallShield includes an IIS scanner (`IISscan.exe`), a new command-line tool for scanning an existing IIS Web site and recording IIS data about the Web site. The IIS scanner creates an XML file that contains all of the settings for the Web site, its virtual directories, its applications, and its application pools. You can use the XML file to import the IIS data into the Internet Information Services view in InstallShield. Once you have imported the IIS data into a project, you can use the Internet Information Services view to make changes to the IIS settings as needed.

Ability to Add IIS Web Applications to Web Sites, Plus Other IIS-Related Improvements

InstallShield now lets you add IIS Web applications to Web sites. You can do so by right-clicking a Web site in the Internet Information Services view and clicking New Application. Once you have added a new application, you can configure its settings in the right pane.

InstallShield also lets you create a virtual directory without an application. Previously whenever you created a virtual directory, an application was also created automatically.

In addition, InstallShield has new IIS settings:

- **Managed Pipeline Mode**—This setting enables you to specify the appropriate request-processing pipeline mode—either integrated or classic—for an application pool.
- **Enable 32-Bit Applications**—This setting lets you specify whether you want to allow 32-bit applications in the selected application pool to be run on 64-bit systems.
- **.NET Framework Version**—This setting is where you specify the version of the .NET Framework that an application pool should load.
- **ASP.NET Platform**—If your installation may be run on a 64-bit version of Windows with the .NET Framework, use this setting to specify which ASP.NET platform should be used to map a Web site, application, or virtual directory to the ASP.NET version.

Support for InstallShield Prerequisites in InstallScript Projects

InstallShield now enables you to add InstallShield prerequisites to InstallScript projects. Previously, only Basic MSI and InstallScript MSI projects included support for this type of redistributable.

InstallShield prerequisites are redistributables that usually install a product or technology framework that is required by your product. Now you can add any of the InstallShield prerequisites that are provided with InstallShield—or any of your own custom-designed InstallShield prerequisites—to InstallScript projects. If you work on a mix of different project types, InstallShield lets you simplify your testing matrix by enabling you to reuse this type of redistributable in all of your Basic MSI, InstallScript, and InstallScript MSI projects.

Ability to Detect the Presence of a Virtual Machine

InstallShield lets you determine whether an installation is running on any of the following types of virtual machines:

- Microsoft Hyper-V
- A VMware product such as VMware Player, VMware Workstation, or VMware Server
- Microsoft Virtual PC

Two new Windows Installer properties are available when you add an MSI DLL custom action to your project to detect virtual machines: `IS_VM_DETECTED` and `IS_VM_TYPE`. The custom action should be configured to call the `ISDetectVM` function in the `SetAllUsers.dll` file, which is installed with InstallShield.

In addition, the InstallScript language has been expanded to support the detection. The structure `SYSINFO` contains a new `bIsVirtualMachine` member, and a new `VIRTUAL_MACHINE_TYPE` constant is available for use with the InstallScript function `GetSystemInfo`.

New Support for Setting Permissions for Files, Folders, and Registry Keys

InstallShield offers two new ways to secure files, folders, and registry keys for end users who run your product in a locked-down environment:

- **Custom InstallShield handling**—In Windows Installer-based projects, you can choose to use custom support for setting permissions at run time. With this option, InstallShield stores permission information for your product in the custom `ISLockPermissions` table of the `.msi` database. InstallShield also adds custom actions to your project to set the permissions.
- **SetObjectPermissions, an InstallScript Function**—You can use the new `SetObjectPermissions` function in InstallScript events and InstallScript custom actions to set permissions at run time.

With the custom InstallShield handling option, the file, folder, or registry key for which you are setting permissions must be installed as part of your installation. With the `SetObjectPermissions` function, the file, folder, or registry key can be installed as part of your installation, or it can be already present on the target system.

Previously, the only option that InstallShield offered for setting permissions was to use the traditional Windows Installer handling. With this option, the permission information is stored in the `LockPermissions` table of the `.msi` database. The new custom InstallShield handling option and the `SetObjectPermissions` function offer several advantages over the traditional Windows Installer handling:

- The custom option and the `SetObjectPermissions` function include support for many well-known security identifiers (SIDs) that are not supported by the traditional Windows Installer handling option.
- The custom option and the `SetObjectPermissions` function support the use of localized user names for the supported SIDs, unlike the traditional option. With the traditional option, if you try to use a localized name to set permissions on a non-English system, the installation may fail.
- The custom option and the `SetObjectPermissions` function let you specify that you want to deny a user or group from having the permissions that you are specifying. The traditional handling does not allow you to do this.
- The custom option and the `SetObjectPermissions` function let you add permissions to a file, folder, or registry key that already exists on the target system, without deleting any existing permissions for that object. With the traditional handling, the existing permissions are deleted.
- The custom option and the `SetObjectPermissions` function let you configure permissions for a folder (or a registry key), and indicate whether you want the permissions to be applied to all of the folder's subfolders and files (or the registry key's subkeys). With the traditional handling, if you want to configure permissions for a subfolder or a file in a folder (or a subkey under a registry key), the parent that is created on the target system automatically inherits the permissions of its child.
- The custom option and the `SetObjectPermissions` function let you configure permissions for a new user that is being created during the installation. The traditional handling does not allow you to do this; the user must already exist on the target system at run time.

The General Information view has a new Locked-Down Permissions setting that lets you specify whether you want to use the new custom InstallShield handling or the traditional Windows Installer handling for all new permissions that you set for files, folders, and registry keys in your project. If you have already configured some permissions in your project and then you change the value of this setting, InstallShield

lets you specify whether you want to use the alternate handling method for those already-existing permissions. In all new projects, the default value for this setting is the custom InstallShield handling option. If you upgrade a project from InstallShield 2009 or earlier to InstallShield 2010, the traditional Windows Installer handling option is the default value of this setting.

Unicode Support

Windows Installer databases can now be built in a Unicode format, InstallShield projects are now stored in a Unicode format, and the InstallShield interface now supports entering and viewing Unicode characters from multiple character sets at the same time.

Support for 64-Bit COM Extraction

InstallShield now supports 64-bit COM extraction. If you are using InstallShield on a 64-bit operating system, InstallShield can extract COM data from a 64-bit COM server. In order to install the data to the correct locations, the component must be marked as 64 bit.

New InstallShield Prerequisites

InstallShield includes a number of new InstallShield prerequisites that you can add to your projects. New InstallShield prerequisites include:

- Windows Installer 4.5 (with Microsoft fix), 3.1, 3.0, and 2.0
- .NET Framework 3.0 SP1 and 2.0 SP2
- Internet Explorer 8
- Microsoft SQL Server 2008 Express SP1 and 2005 Express SP3
- Microsoft Visual C++ 2005 SP1
- Oracle 11g Instant Client 11.1.0.7
- Crystal Reports Basic for Visual Studio 2008

New Billboard Support in Basic MSI Projects

Basic MSI projects now include support for billboards. You can add billboards to your projects to display information to end users during the installation process. The billboards can be used to communicate, advertise, educate, and entertain end users. For example, billboards can present overviews on new features of the product being installed or other products from your company. Each billboard is a file that you or your company's graphics department creates for complete control over the look and feel of the file transfer.

Following are some of the highlights regarding billboard support in Basic MSI projects:

- You can add an Adobe Flash application file (.swf) as a billboard in your project.
- Flash application files can consist of videos, movies, sounds, interactive interfaces, games, text, and more— anything that is supported by the .swf type of file.
- InstallShield lets you use .bmp, .gif, .jpg, and .jpeg files as billboards.

- InstallShield includes a Billboard Type setting that lets you specify which style of billboard you want to use in your installation. For example, with one style, the installation displays a full-screen background, with billboards in the foreground, and a small progress box in the lower-right corner of the screen. With another style, the installation displays a standard-size dialog that shows the billboards. The bottom of this dialog shows the progress bar.
- InstallShield lets you preview a billboard to see how it would be displayed at run time, without requiring you to build and run a release. Previewing a billboard lets you see how your billboard will look with the background color, position, and related settings that are currently configured for your billboard.
- The Billboards view in InstallShield is where you add billboard files, configure billboard-related settings, and preview billboards.

Previously, only InstallScript and InstallScript MSI projects included support for billboards.

Expanded Billboard Support in InstallScript and InstallScript MSI Projects

InstallScript and InstallScript MSI projects now let you use .gif, .jpg, and .jpeg files as billboards. Previously, only .bmp files were supported. Use the Support Files/Billboards view to add billboards to your project.

Support for HTML Controls on Dialogs During InstallScript and InstallScript MSI Installations

InstallShield includes support for HTML controls on dialogs in InstallScript and InstallScript MSI projects. HTML controls enable you to use HTML markup for dialog controls.

You can include on dialogs links to Web pages, installed HTML files, and HTML support files. If an end user clicks the hyperlink on the run-time dialog, you can have the HTML page open in an Internet browser, or you can trigger other behavior that you have defined through your InstallScript code.

The HTML control lets you use any valid HTML markup, including styles to control their appearance.

Support for Specifying Action Progress Messages

To keep end users informed, installations commonly display text on the progress dialog to describe the installation's current activity. This usually accompanies the progress bar as a means of installation status. As each standard action and custom action is encountered, a message about the action is displayed on the progress dialog. This may be especially useful for actions that take a long time to execute. The same action text is also written to the installation's log file if one is created.

The Custom Actions and Sequences view has a new Action Text area that lets you specify action descriptions and details.

Setup.exe Manifests Now Have Compatibility Section to Avoid Triggering Program Compatibility Assistant on Windows 7 and Windows Server 2008 R2 Systems

If you configure your InstallShield project to create a setup launcher for your installation, the manifest that InstallShield creates for the setup launcher now includes a compatibility section. Previously, without this compatibility section, a Program Compatibility Assistant (PCA) dialog box may have appeared at the end of an installation on Windows 7 and Windows Server 2008 R2 systems. The PCA dialog box indicated that the program might not have installed correctly. This dialog box was displayed if the installation did not create the application uninstallation key. This may happen if the end user cancels the installation or the installation fails to complete successfully.

Updated Visual Studio Merge Modules

InstallShield includes updated versions of the Visual Studio 2008 SP1, Visual Studio 2005 SP1, and Visual Studio .NET 2003 SP1 merge modules that are installed in *InstallShield Program Files Folder\Modules\i386* by default. The updates include changes that were made for [Microsoft Security Bulletin MS09-035](#) (Vulnerabilities in Visual Studio Active Template Library Could Allow Remote Code Execution (969706)).

Windows Installer 5 Support for Configuring New Customization Options for Windows Services, Plus Other Service-Related Improvements

InstallShield now includes support for configuring extended customization options for Windows services. The customization options include a new delayed auto-start capability to help system startup performance, improved failure detection and recovery options to improve system reliability, and more. Windows Installer 5 supports these new options; earlier versions of Windows Installer ignore them.

To configure the new service-related settings, use the new Services node in the Advanced Settings area for a component in the Setup Design view (in installation projects) or the Components view. All of the services for a component are now grouped and listed by service name under the Services node. In addition, the previously available service-related settings are now consolidated in the same grid with the new settings. In earlier versions of InstallShield, these previously available service-related settings were split among separate subviews for the Install NT Services and Control NT Services nodes. The consolidated grid of settings makes it easier to create a component that installs, configures, starts, stops, or deletes a new or existing service during installation or uninstallation.

Validation for the Windows 7 Logo Program

InstallShield includes two new validation suites: InstallShield Validation Suite for Windows 7 and InstallShield Merge Module Validation Suite for Windows 7. These validation suites can help you verify that your Windows Installer-based installation or merge module meets the installation requirements of the Compatible with Windows 7 logo program. If you want to be able to use the Windows 7 logo artwork, your product's installation must meet the program's requirements.

- **If you want to configure InstallShield to perform validation with these validation suites each time that a release is successfully built**—On the Tools menu, click Options. On the Validation tab, select the appropriate check boxes.
- **If you want to perform validation separately from the build process**—On the Build menu, point to Validation, and then click the appropriate new suite.

Windows Installer 5 Support for Setting Windows Shell Properties for a Shortcut

The Shortcuts view in InstallShield now lets you specify one or more shortcut properties that need to be set by the Windows Shell at run time. For example, if you do not want the Start menu entry for one of your shortcuts to be highlighted as newly installed after end users install your product, you can set a property for that shortcut. You might want to use this property with shortcuts that are for tools and secondary products.

Windows Installer 5 includes support for setting Shell shortcut properties. Earlier versions of Windows Installer ignore those properties.

Ability to Specify a Custom .png Shortcut Icon for the Start Screen on Windows Mobile 6.5 Professional–Powered Devices

If you are creating a mobile device installation for Windows Mobile-powered devices and you plan to distribute your product through Windows Marketplace for Mobile, you need to use a 90×90 pixel Start screen icon (.png file) for your product. Both the Windows Mobile Wizard and the Smart Device Setup Wizard in InstallShield enable you to select the .png file that you want to use. When the shortcut is installed and displayed on Windows Mobile 6.5 Professional-powered devices, the Windows Mobile Shell scales down the shortcut's icon as necessary, depending on the DPI of the device.

The Shortcut Properties dialog box has a new **Use a Start screen icon (.png)** check box. If you want to use a .png file, select this check box, and then click the browse button to specify the file. The Shortcut Properties dialog box opens when you are using the Windows Mobile Wizard or the Smart Device Setup Wizard and you add a new shortcut or change the properties of an existing shortcut on the Shortcuts panel.

Windows Installer 5 Support for the MsiPrint and MsiLaunchApp Control Events

When you are adding a control to a dialog in your project, you can select one of the new events that is now available for Windows Installer 5:

- **MsiPrint**—You can add this event to a push button control that is on a dialog that has a scrollable text control. When an end user clicks the push button control, the contents of the scrollable text control are printed.
- **MsiLaunchApp**—You can add this event to a check box control on a dialog, and select the file that you want to be launched in the event's Argument setting. The check box enables end users to choose whether to run the file at the end of the installation. This event is typically used with a check box control that is on the **SetupCompleteSuccess** dialog. The check box control should include a condition that prevents the control from being displayed during uninstallation.

Windows Installer 5 includes support for these control events. Earlier versions of Windows Installer ignore these events. Therefore, if your installation is run on a system that has Windows Installer 4.5 or earlier and you want to use one or both of these new events, add a condition to the dialog controls so that they are not displayed on systems that have Windows Installer 4.5 or earlier.

Windows Installer 4.5 Prerequisites for Windows Vista Systems

The conditions in the following two InstallShield prerequisites are now configured correctly: Windows Installer 4.5 for Windows Vista (x86) and Windows Installer 4.5 for Windows Vista (x64). If one of these InstallShield prerequisites is installed on the target system during your installation, the installation no longer attempts to install it again.

Dependency Scanning and COM Extraction Now Exclude Protected Windows 7 Files and Registry Entries

The `Filters.xml` file that is installed with InstallShield has been updated with exclusions for files and registry keys that are protected by Windows Resource Protection (WRP) on Windows 7 systems. Therefore, if you extract COM data from COM servers, InstallShield does not extract any registry keys that are protected by WRP for Windows 7. In addition, if you run the dependency scanners in InstallShield, they do not list as dependencies any files that are protected by WRP for Windows 7.

Repackager Enhancements

AdminStudio Repackager 9.5 ZENworks Edition for ZENworks 7 and ZENworks 10 users includes the following enhancements:

- [Build Engine Upgrade](#)
- [Updated Repackager Exclusions List for Windows 7](#)
- [Updated Repackager Installation Monitoring Method Exclusions for Windows 7](#)
- [Enhanced Support for Capturing Side-by-Side Assemblies](#)
- [Enhanced User Folder Handling](#)
- [Enhanced International Language Support](#)

Build Engine Upgrade

Repackager now uses the Build Engine from InstallShield 2010 SP1.

Updated Repackager Exclusions List for Windows 7

The default Repackager exclusions list has been updated for Windows 7. If you capture an application on a Windows 7 operating system, Repackager will automatically exclude all OS files and registry entries.

Updated Repackager Installation Monitoring Method Exclusions for Windows 7

The process exclusions used by the Repackager Installation Monitoring method has been updated to include the process exclusions for Windows Vista and Windows 7.

Enhanced Support for Capturing Side-by-Side Assemblies

Repackager now provides improved functionality when capturing side-by-side assemblies.

Enhanced User Folder Handling

In Windows 7, user data folders have been moved. Therefore, in AdminStudio 9.5, the handling of Repackager user data has been improved to accommodate these changes.

Enhanced International Language Support

AdminStudio 9.5 provides enhanced international language support:

- Enhanced repackaging on international platforms.
- Improved repackaging of international applications that use double-byte character sets.
- Management of international applications in the Application Catalog.

System Requirements

The following table lists the recommended system configuration for a machine running AdminStudio 9.5 ZENworks Edition.

Item	Description
Processor	1 GHz 32-bit (x86) or greater
RAM	256 MB or greater (512 MB preferred)
Hard Disk	1.1 GB
Display	Designed for XGA at 1024 x 768 resolution or higher
Operating System	Windows 7, Windows Vista, Windows XP (SP1 or later is recommended), Windows 2000 SP3 or later, or Windows Server 2003 or later.
Browser	Microsoft Internet Explorer 5.5 or later
Privileges	Administrative privileges on the system



Note • The first time you launch an AdminStudio ZENworks Edition tool, you will be prompted to log in to a ZENworks eDirectory server or a ZENworks Configuration Management server. After a successful login, you will not be prompted to login again.

Known Issues

For a complete list of known issues that pertain to the AdminStudio 9.5 release, see the AdminStudio Support [Knowledge Base](#).