



FLEXERA SOFTWARE™

AdminStudio®

AdminStudio 10.0 SP1

Release Notes

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Introduction

AdminStudio 10 is the industry's first comprehensive Application Readiness solution enabling organizations to strategically manage application packaging and remediation across their entire software estate, mitigating Windows 7 and application virtualization migration risks.

With as many as 35% of an enterprise's applications requiring updates in any given year, coupled with the explosive growth in Windows 7 migrations and virtualization initiatives, compatibility assessment, remediation and packaging processes are now of strategic importance to IT organizations. AdminStudio delivers application packaging efficiencies as much as nine times greater compared to manual efforts.

- AdminStudio 10 now lets users centrally manage and report on the virtual and traditional application portfolio for an overall view of the application estate's readiness for each format.
- A new, unified "application-centric" Application Catalog manages all deployment types for an application, enabling all packages—including virtual packages—to be handled with the same process and tools as those used for MSIs, eliminating the cost and complexity of having multiple solutions and repositories.
- Moreover, AdminStudio 10 is now powered by the latest version of the world's leading MSI authoring and editing tool, InstallShield® 2011, giving users complete flexibility in editing packages using the same installation preparation tool relied on by over 71,000 ISVs worldwide.

AdminStudio Application Compatibility Pack

Available as part of AdminStudio Suite is the new AdminStudio Application Compatibility Pack.

- It automatically assesses all applications to accurately calculate the effort and cost of the migration project.
- It also pinpoints and fixes application compatibility issues for desktop, server and web-based applications. As a result, packagers can test applications in minutes instead of weeks and obtain an overall view of the compatibility of all applications, including which ones require fixing for deployment on Windows 7 or Internet Explorer 8.
- Moreover, for applications that do require remediation, AdminStudio Application Compatibility Pack generates a standard MSI transform, automatically fixing in a matter of minutes 98% of installation package-related Windows 7 compatibility issues. This drastically reduces overall costs by removing the need for skilled packaging and support resources and manual efforts.

AdminStudio Virtualization Pack

AdminStudio 10.0 also includes enhancements to AdminStudio Virtualization Pack, which prepares reliable virtual applications for deployment with a complete set of suitability testing, automated conversion, validation, editing and management reporting capabilities.

- Enhanced validation and conflict testing of Microsoft App-V packages supports packagers in managing both MSI and App-V with the same tool and processes to ensure a consistent, unified approach.
- Packagers can also directly edit App-V packages, saving significant time and effort by eliminating the need to re-convert from an MSI when a change to an App-V package is required.

- AdminStudio Virtualization Pack’s enhancements also include robust suitability testing—removing the trial and error approach to determining if applications can be virtualized. This, along with customizable reports and dashboard, provides essential decision support for choosing the appropriate delivery/deployment technology via continuous reporting on the application estate’s readiness for each format.

AdminStudio 10.0 SP1

In AdminStudio 10.0 SP1, AdminStudio offers an even more fully integrated application readiness solution by including the following new features:

- **Compatibility Solver integration with Application Manager**—You can now view a summary of Compatibility Solver test results in Application Manager’s Application Readiness Dashboard, and can view Compatibility Solver test results for an individual package in the new Application Compatibility View.
- **Expanded virtualization suitability testing**—Virtualization suitability testing has been expanded to include not only testing for suitability to convert a package to Microsoft App-V format, but also to convert to Citrix XenApp and VMware ThinApp formats. This enables you to test the suitability of applications for multiple delivery technologies early in your planning process so you can select the optimal technology for your application portfolio.
- **Enhanced Remote Desktop testing**—Additional Windows Terminal Server / Remote Desktop ACE tests have been added to the Conflict Wizard, which provide an extra level of confidence when delivering applications via Remote Desktop.
- **Support for latest Microsoft OS releases**—AdminStudio has been updated to run on and support the recent releases of Windows 7 Service Pack 1, and Internet Explorer 9.

Getting Started

AdminStudio 10.0 has a redesigned Start Page which makes it easy for you to quickly get started evaluating and using AdminStudio. The new Start Page’s tabbed interface provides process information on how to perform the following key procedures using AdminStudio:

Procedure	Procedure
 Test for Application Compatibility	Use Compatibility Solver to test for application readiness on Microsoft Windows 7 (32-bit and 64-bit) and Windows Server 2008 R2 platforms, as well as compatibility with Internet Explorer 8.0.
 Migrate to Application Virtualization	Migrate your application portfolio into virtual applications that are ready for deployment within the enterprise.
 Migrate to Windows Installer	Migrate legacy setups to deployable Windows Installer packages.

Procedure



Set Up Infrastructure

Procedure

Perform one-time setup tasks: connect to an Application Catalog, prepare virtual machines for use in automated repackaging and testing, configure e-mail, create a Compatibility Solver database, and download Compatibility Solver reports.



Important • It is highly recommended that you spend some time reviewing the flowcharts on the AdminStudio Start Pages to become familiar with AdminStudio's new and existing capabilities.

As an example, the **Migrate to Application Virtualization** tab is shown below.



Figure 1: Migrate to Application Virtualization Tab of AdminStudio Start Page

Each tab explains how to perform a key AdminStudio procedure. Each procedure is broken down into several tasks, which are identified at the top of each column.

As you review these flowcharts, note the following:

- **Steps**—Review the numbered steps in each task.
- **Learn more**—Click on **Learn More...** to launch detailed help topics on how to perform each step.
- **Tool launch buttons**—To get started performing a task, click the button at the bottom of the column to launch the appropriate AdminStudio tool.
- **Create New Project**—Click this button to create a new Project, which you can use to guide you through the steps in a procedure.

New Features

This section describes the new features in the following versions of AdminStudio:

- [AdminStudio 10.0 Service Pack 1](#)
- [AdminStudio 10.0](#)

AdminStudio 10.0 Service Pack 1

The AdminStudio 10.0 Service Pack 1 release includes the following new features:

- [Integrated Compatibility Solver Reporting in Application Manager](#)
- [Enhancements to the Application Readiness Dashboard](#)
- [New Virtualization Readiness Dashboard](#)
- [Enhanced Virtualization Suitability View With XenApp and ThinApp Suitability](#)
- [New Windows Terminal Server \(Remote Desktop\) Tests](#)
- [Microsoft App-V 4.6 SP1 Support](#)
- [Windows 7 SP1 and Internet Explorer 9 Support](#)

Integrated Compatibility Solver Reporting in Application Manager

In AdminStudio 10.0 SP1, Compatibility Solver test results have been integrated into Application Manager. You can now view a summary of Compatibility Solver test results in Application Manager's Application Readiness Dashboard, and can view Compatibility Solver test results for an individual package in the new Application Compatibility View.

- [Viewing Compatibility Solver Test Results in the Application Readiness Dashboard](#)
- [New Application Compatibility Dashboard Report](#)
- [New Application Compatibility View in Application Manager](#)
- [Connecting the AdminStudio Application Catalog Database to the Compatibility Solver Database](#)

Viewing Compatibility Solver Test Results in the Application Readiness Dashboard

Windows 7 application compatibility test results from Compatibility Solver are now displayed in the Application Readiness Dashboard:

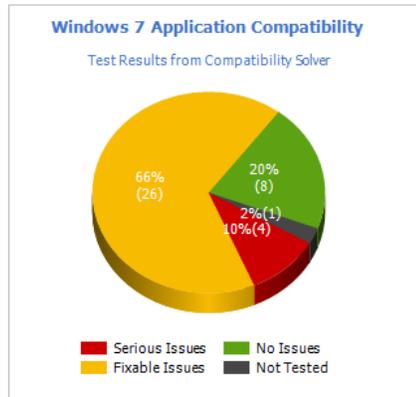


Figure 2: Windows 7 Application Compatibility Test Results in the Application Readiness Dashboard

You can click on any section of the chart to open more detailed reports.



Application Compatibility Results - Windows 7

Packages With Serious Issues Found



Product Name	Manufacturer	Serious Issue Count	Fixable Issue Count
Access97	Starbucks	1	25
Messenger	Microsoft Corporation	1	46
Microsoft ActiveSync	Microsoft Corporation	1	8
Picasa	Google Inc.	5	8

Figure 3: Packages with Serious Issues Found

New Application Compatibility Dashboard Report

The new **Application Compatibility Dashboard**—which is opened by selecting **Application Compatibility Dashboard** from the **Select Report** list on the Application Catalog view—provides a snapshot of the compatibility test results of the currently imported applications in Compatibility Solver.

This report not only displays Windows 7 application compatibility test results, but also Windows 64-bit and Windows Server 2008 R2 compatibility issues.

Application Compatibility Dashboard



The **Application Compatibility Dashboard** provides a snapshot of the compatibility test results of the currently imported applications in Compatibility Solver. This includes the results of testing for compatibility with Windows operating systems, 64-bit Windows platforms, and certain Internet Explorer versions.

Note: Click on the charts below to open more detailed reports.

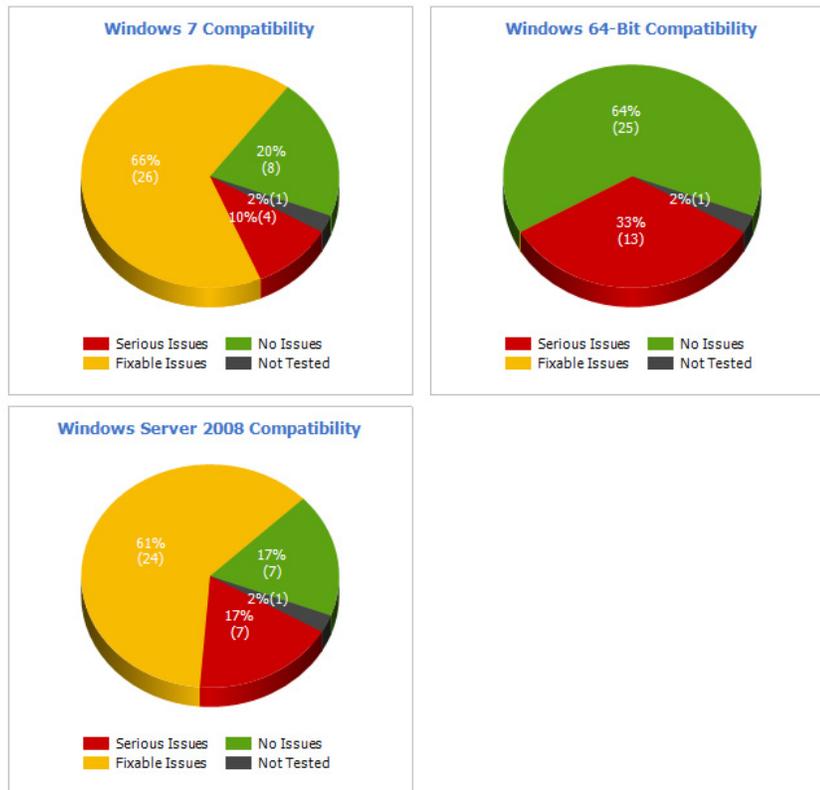


Figure 4: Application Compatibility Dashboard

You can click on any section of the chart to open more detailed reports.

New Application Compatibility View in Application Manager

In Application Manager, a new **Application Compatibility View** displays the Compatibility Solver test results for the selected Windows Installer package.

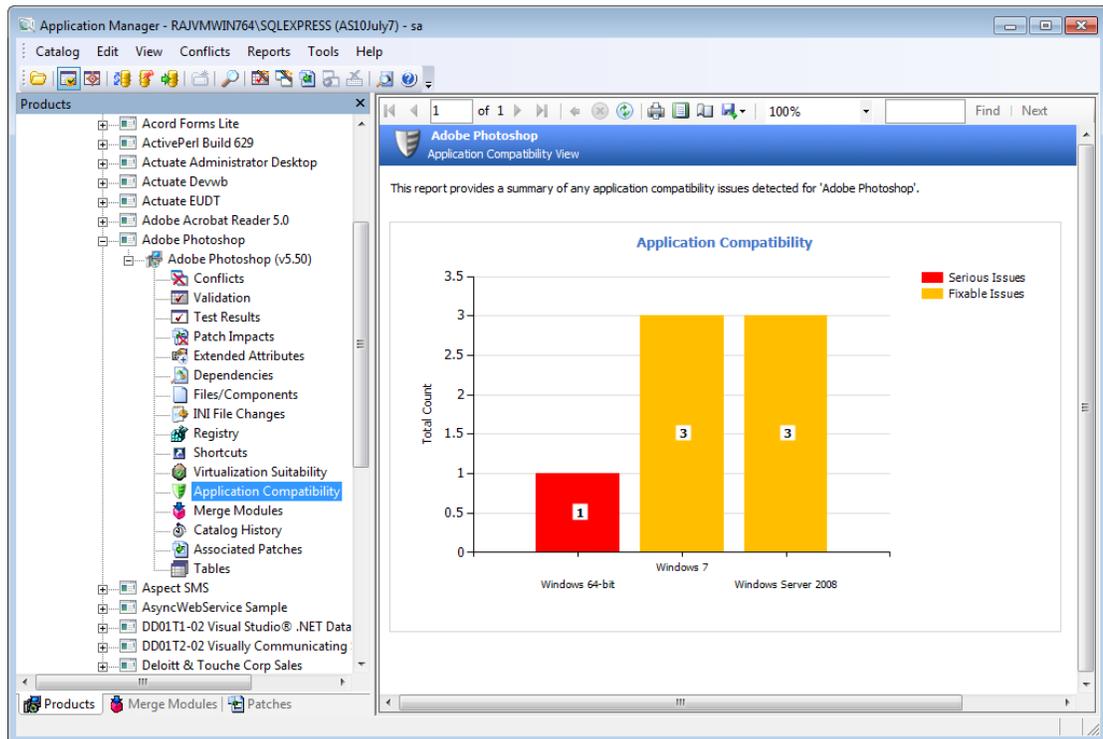


Figure 5: Application Compatibility View in Application Manager

The following is displayed on the **Application Compatibility View**:

- **Serious and Fixable issues**—This view lists the number of serious and fixable issues for three sets of compatibility tests: Windows 64-bit, Windows 7, and Windows Server 2008 R2. If no issues were found, **No Issues** is displayed.
- **No tests run in Compatibility Solver**—If the package has been loaded into Compatibility Solver, but no tests have been run, **Not Tested** is displayed.
- **Package not loaded in Compatibility Solver**—If the package has not been loaded into Compatibility Solver, no results will be displayed.

You can click on any section of the chart to open more detailed reports:

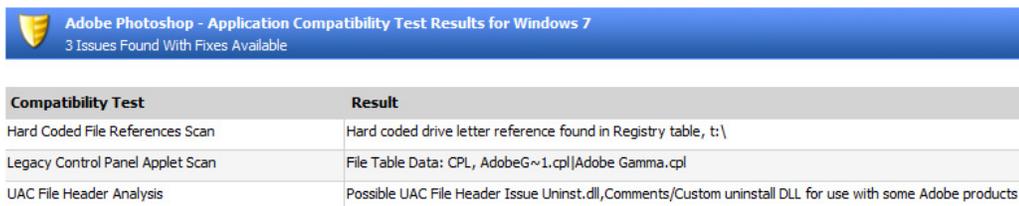


Figure 6: Windows 7 Test Results: Issues Found With Fixes Available

Connecting the AdminStudio Application Catalog Database to the Compatibility Solver Database

In order to integrate Compatibility Solver test results into the AdminStudio Application Catalog—making them available to display in AdminStudio report views—you need to specify the location of the **Compatibility Solver Database** on the **Application Catalog** tab of the AdminStudio **Options** dialog box.

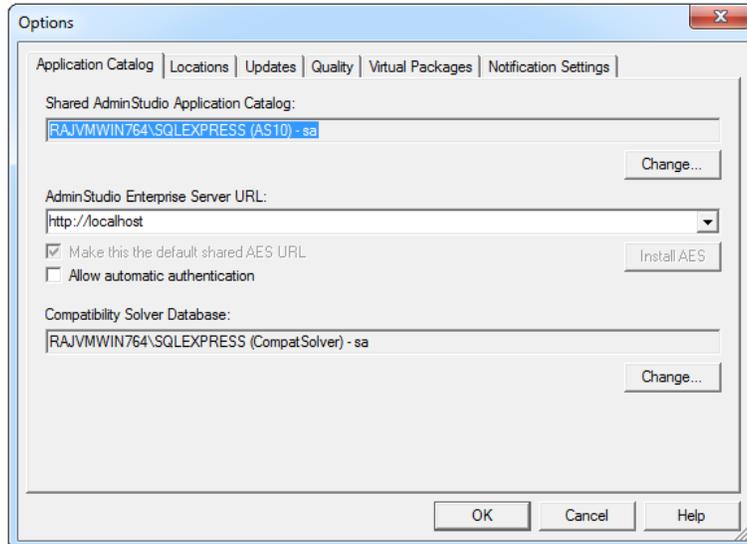


Figure 7: Compatibility Solver Database Property on AdminStudio Options Dialog Box

Enhancements to the Application Readiness Dashboard

In addition to the Compatibility Solver integration described in the previous section, several additional enhancements and updates have been made to the Application Manager Application Readiness Dashboard:

- [Enhanced App-V Virtualization Readiness Report](#)
- [Windows Installer and Virtualization Best Practices Reports](#)
- [Error Category Breakdown](#)

Enhanced App-V Virtualization Readiness Report

The redesigned **App-V Virtualization Readiness** report in the Application Readiness Dashboard shows a summary of the App-V virtualization status of packages in the Application Catalog, identifying packages as being **Ready**, **Fixable Issues**, **Not Ready**, **Not Tested**, or **Already Virtualized**.

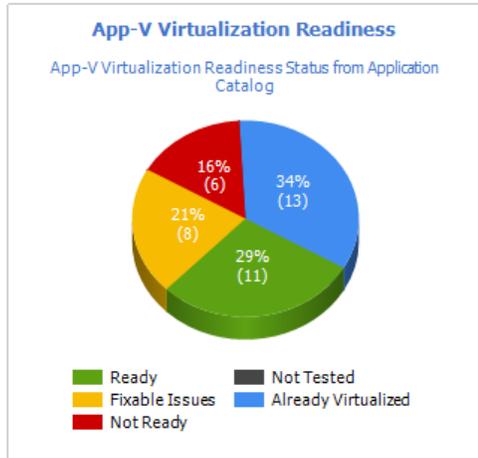


Figure 2-1: App-V Virtualization Readiness Report

If you click on one of the categories of this report, you will see of a list of the packages in that category:



Virtualization Readiness - App-V
Applications Ready for Virtualization



This report lists the applications in the Application Catalog that are ready to be virtualized. Any suitability issues mentioned below are for informational purposes only. In most cases AdminStudio can virtualize these applications using Automated Application Converter.

Application	Product Name	Product Version	Suitability Issue	Suitability Description
ACE03 Conflicts	ACE03 Conflicts	2.00	None	
ACH	ACH	5.2	None	
Acord Forms Lite	Acord Forms Lite	6.6	None	
ActivePerl Build 629	ActivePerl Build 629	5.6.1.629	Conditionalized Component	This package contains one or more components which are only installed in under certain conditions. Since some components may be excluded in certain environments, the exact set of files and registry to convert must be determined by repackaging this application.
			Custom Action	This package contains one or more unknown custom actions. Since these actions may result in the addition or removal of files or registry, the exact set to convert must be determined by repackaging this application.
			Unsupported Table	This package contains one or more tables that are not supported by direct conversion. Since these tables may result in the addition or removal of files or registry, the exact set to convert must be determined by repackaging this application.
Actuate Administrator Desktop	Actuate Administrator Desktop	3.2.1	None	
	Actuate Administrator Desktop	3.2.1	None	
Actuate Devwb	Actuate Devwb	321	Custom Action	This package contains one or more unknown custom actions. Since these actions may result in the addition or removal of files or registry, the exact set to convert must be determined by repackaging this application.

Figure 2-2: App-V Virtualization Readiness Detail Report

If you then click on the highlighted **Product Name** in one of these detail reports, the **Extended Information** report for that package opens, listing the suitability issues that were found and the specific area of the package which triggered that issue.

Extended Information for Packages Ready For Virtualization



This report lists the extended suitability information of the packages ready for Virtualization

Package Name	Suitability Issue	Extended Information
Factset 9.34c	Custom Action	'WiseDllReg' is a custom action. 'Action11' is a custom action. 'Action10' is a custom action. 'Action9' is a custom action. 'Action8' is a custom action. 'Action7' is a custom action. 'Action6' is a custom action. 'WiseDllUnreg' is a custom action. 'WiseDllReg2' is a custom action. 'WiseDllUnreg2' is a custom action. 'WiseDllReg3' is a custom action. 'WiseDllUnreg3' is a custom action. 'WiseDllReg4' is a custom action. 'WiseDllUnreg4' is a custom action.

Figure 3: Extended Information on Custom Action Suitability Issue



Note • Charts that indicate the virtualization readiness status of packages in the Application Catalog for all three supported virtual formats—Microsoft App-V, Citrix XenApp, and VMware ThinApp—are available in a new report introduced in AdminStudio 10.0 SP1: the [New Virtualization Readiness Dashboard](#).

Windows Installer and Virtualization Best Practices Reports

The charts in the Application Readiness Dashboard that show the results of ICE validation of Windows Installer packages and best practices testing and conflict analysis of Windows Installer and App-V packages have been reorganized into two groups:

- [Windows Installer Best Practices](#)
- [Virtualization Best Practices](#)

Windows Installer Best Practices

The results of ICE validation, best practices testing, and conflict analysis of Windows Installer packages in the Application Catalog are now grouped in one area of the dashboard entitled **Windows Installer Best Practices**:



Figure 4: Windows Installer Best Practices Charts

These charts identify the Windows Installer packages in the Application Catalog as being in one of the following categories: **Not Tested**, **Errors**, **Warnings**, or **No Issues**. You can click on any section of these charts to view a list of the packages in that category.

Virtualization Best Practices

The results of best practices testing and conflict analysis of App-V packages in the Application Catalog are now grouped in one area of the dashboard entitled **Virtualization Best Practices**:



Figure 5: Virtualization Best Practices Charts

These charts identify the App-V packages in the Application Catalog as being in one of the following categories: **Not Tested**, **Errors**, **Warnings**, **No Issues**. You can click on any section of these charts to view a list of the packages in that category.

Error Category Breakdown

In AdminStudio 10.0, the **Error Category Breakdown** chart was displayed in the Application Readiness Dashboard. In AdminStudio 10.0 SP1, you open this report by selecting **Error Category Breakdown** from the **Select Report** list of the Application Catalog View.

New Virtualization Readiness Dashboard

Summary charts that indicate the virtualization readiness status of packages in the Application Catalog for all three supported virtual formats—Microsoft App-V, Citrix XenApp, and VMware ThinApp—are available in a new report introduced in AdminStudio 10.0 SP1: the **Virtualization Readiness Dashboard**. This dashboard also shows the results of best practice and conflict testing of the App-V packages in the Application Catalog.

You open the Virtualization Readiness Dashboard by selecting **Virtualization Readiness Dashboard** from the **Select Report** list in the Application Catalog View.

Virtualization Readiness Dashboard

The **Virtualization Readiness Dashboard** provides a snapshot of the virtualization readiness status, App-V package quality, and App-V package conflicts of applications in your Application Catalog.

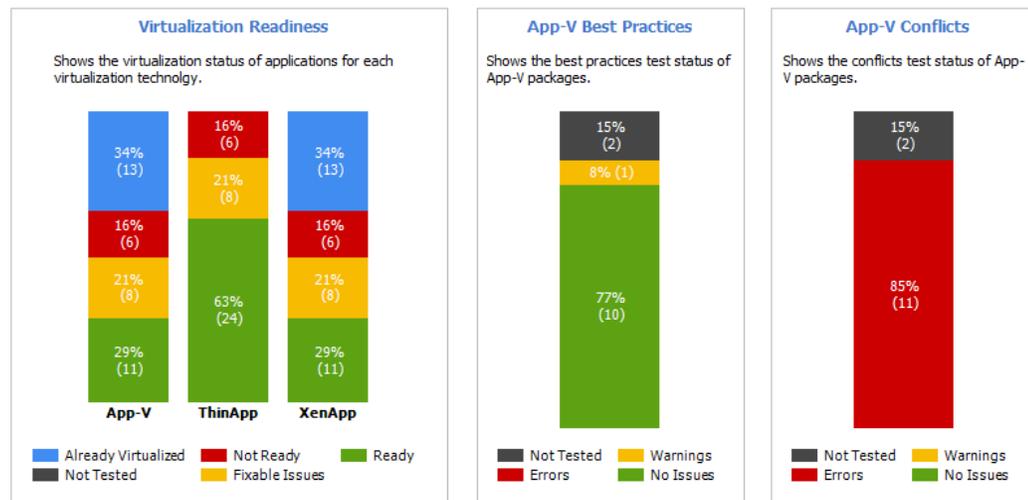


Figure 6: Virtualization Readiness Dashboard

Virtualization Readiness Charts

The bar charts in the **Virtualization Readiness** area of the **Virtualization Readiness Dashboard** identify the virtualization status of Windows Installer packages in the Application Catalog for each of the supported virtualization technologies—App-V, ThinApp, and XenApp.

Packages are automatically tested at import and are assigned one of the following statuses: **Already Virtualized**, **Not Tested**, **Not Ready**, **Fixable Issues**, or **Ready**.

You can click on any section of these charts to view a list of the packages in that category.

App-V Best Practices and App-V Conflicts Charts

The bar charts in the **App-V Best Practices** and **App-V Conflicts** areas of the **Application Readiness Dashboard** summarize the results of best practice testing and conflict analysis of App-V packages in the Application Catalog.

Packages are tested either automatically at import or by using the Conflict Wizard, and are assigned one of the following statuses: **Not Tested**, **Errors**, **Warnings**, or **No Issues**.

You can click on any section of these charts to view a list of the App-V packages in that category.

Enhanced Virtualization Suitability View With XenApp and ThinApp Suitability

Virtualization suitability testing has been expanded to include not only testing for suitability to convert a package to Microsoft App-V format, but also to convert to Citrix XenApp and VMware ThinApp formats.

You can view the results of virtualization suitability testing of an individual package on the new **Virtualization Suitability View**, which is opened by selecting the **Virtualization Suitability** node under a Windows Installer package in the Application Manager tree.

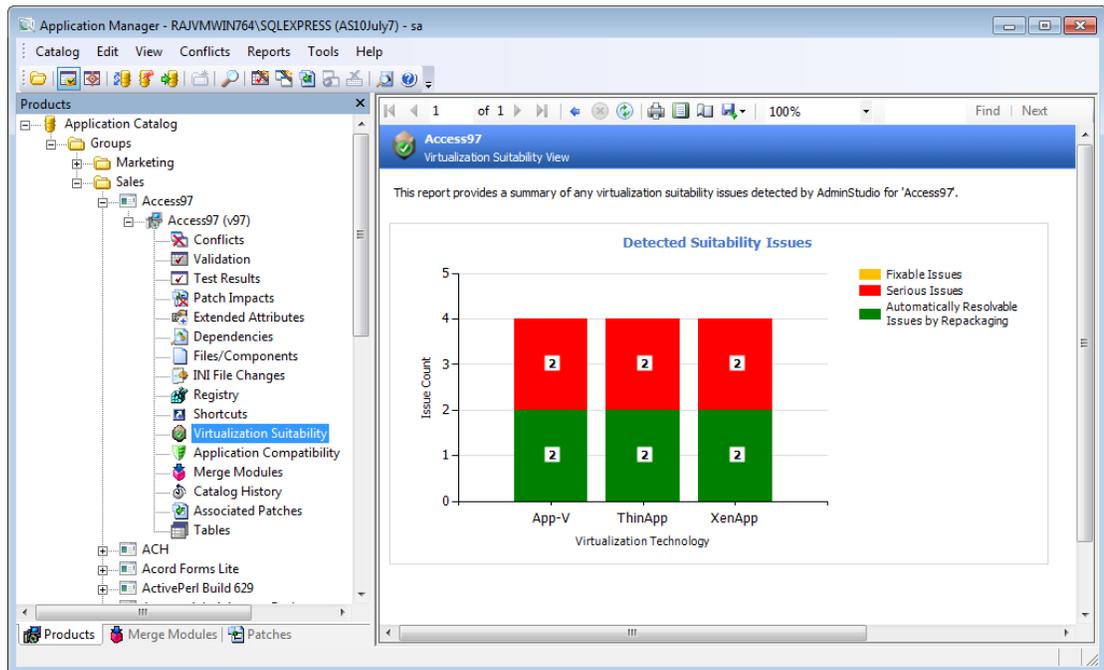


Figure 7: Virtualization Suitability View

Issues are grouped into three categories: **Fixable Issues**, **Serious Issues**, and **Automatically Resolvable Issues by Repackaging**.

If you click on one of the categories on the bars, a detailed report of those issues is displayed.

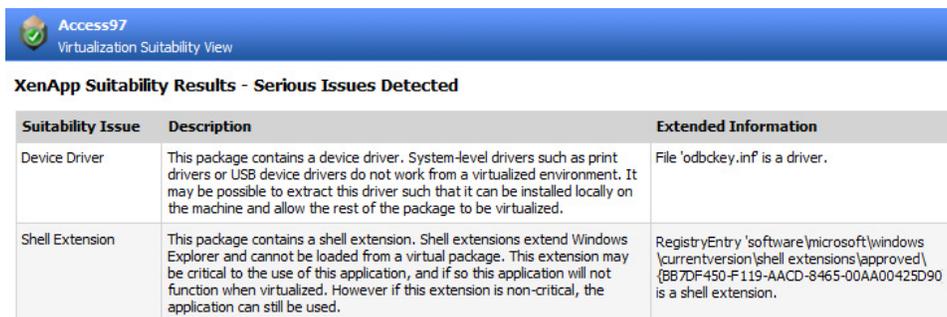


Figure 8: Virtualization Suitability View - Detailed Report



Tip • Packages are automatically tested for virtualization readiness during import into the Application Catalog or when you upgrade an existing Application Catalog. To manually retest a package or group of packages for virtualization readiness, select a package, application, or group in the Application Manager tree and select **Run Virtualization Readiness** from the context menu.

Virtualization Suitability Issues

AdminStudio uses the following set of tests to determine if a Windows Installer package is a suitable candidate for virtualization to Microsoft App-V, VMware ThinApp, or Citrix XenApp formats.

Table 2-1 • Virtualization Suitability Issues

Rule	Description
Generic	<p>Package is not a valid Windows Installer package.</p> <p>Usually this issue is found in legacy installations that require repackaging. In rare cases, it could also be found in a Windows Installer (.msi) package which has become corrupted. However since the contents are not known, this package has not been analyzed for virtualization suitability.</p>
No Shortcut	<p>Package contains no shortcuts.</p> <ul style="list-style-type: none"> • App-V suitability—For conversion to App-V packages, this issue is acceptable in some scenarios, such as packages which provide dependencies to others which dynamically suite it. However, if this package merely provides a plug-in to another application, it must contain a shortcut to launch that application in this package's virtual context. • ThinApp and XenApp suitability—For conversion to ThinApp and XenApp formats, shortcuts are necessary to define the entry point into the virtual application. <p>One potential resolution to this issue is to use InstallShield Editor to add shortcut(s) to the Windows Installer package.</p>
ClickOnce	<p>Package contains a ClickOnce application.</p> <p>ClickOnce is a per-user installation format which is often incompatible with the per-machine nature of virtual package deployment. A ClickOnce application also may try to automatically update itself, which results in invalid versioning in the application virtualization client.</p>
Shell Extension	<p>Package contains a shell extension.</p> <p>Shell extensions extend Windows Explorer and cannot be loaded from a virtual package. This extension may be critical to the use of this application, and, if so, this application will not function when virtualized. However, if this extension is non-critical, this application may function when virtualized.</p>

Table 2-1 • Virtualization Suitability Issues

Rule	Description
OS Integrated	<p>This package contains files that are closely integrated with the operating system.</p> <p>The files that make up applications like Internet Explorer or Windows Media Player, or frameworks like the .NET Framework, do not make good candidates for virtualization. These files should instead be installed locally on the machine.</p>
Boot Service	<p>This package contains a service which starts at boot-time.</p> <p>Virtualized services are limited to the lifetime of the virtual application, so services that must start at boot time do not make good candidates for virtualization to App-V or XenApp formats. It may be possible to extract this service such that it can be installed locally on the machine and allow the rest of the package to be virtualized.</p>  <hr/> <p>Note • <i>Boot time services do not cause a problem when converting a package to a ThinApp application.</i></p>
Too Large	<p>This package contains more than 4 GB of files.</p> <p>App-V and XenApp do not support packages containing more than 4 GB of files. This application cannot be successfully virtualized.</p>  <hr/> <p>Note • <i>ThinApp supports packages containing more than 4 GB of files.</i></p>
COM Surrogate DLLs	<p>This package contains a COM DLL using surrogate virtualization.</p> <p>App-V, XenApp, and ThinApp do not support COM DLL surrogate virtualization, so this package may not work correctly if virtualized.</p>
COM Plus	<p>This package contains a COM Plus component.</p> <p>App-V, XenApp, and ThinApp do not support COM Plus components, so this package may not work correctly if virtualized.</p>
Device Driver	<p>This package contains a device driver.</p> <p>System-level drivers such as print drivers or USB device drivers do not work from a virtualized environment. It may be possible to extract this driver such that it can be installed locally on the machine and allow the rest of the package to be virtualized.</p>
64-bit Package	<p>This is a 64-bit package.</p> <p>XenApp and ThinApp do not support virtualization of 64-bit packages.</p>  <hr/> <p>Note • <i>App-V supports virtualization of 64-bit packages.</i></p>

New Windows Terminal Server (Remote Desktop) Tests

Additional Windows Terminal Server (Remote Desktop) ACE tests have been added to the Conflict Wizard, which provide an extra level of confidence when delivering applications via Remote Desktop. You can use these ACEs to perform compatibility testing of applications to ensure that both the package data as well as the binary files are compliant when run on Terminal Server.

- [WTS06: Check for TSAWARE Flag-Enabled Executables](#)
- [WTS07: Check for Instances of TerminalServer/RemoteAdminTS Conditions](#)
- [WTS08: Checks for 16-Bit Applications](#)
- [WTS09: Checks for Files Manifested to Run as Administrator](#)

WTS06: Check for TSAWARE Flag-Enabled Executables

WTS06 checks a package to make sure that all of the executables that it contains have the TSAWARE flag enabled. The WTS06 error string is displayed in the following format:

The binary '[EXECUTABLE_FILE_NAME]' in package '[PACKAGE_NAME]' ('PACKAGE_NAME') does not have the TSAWARE flag set. This affects the deployment of this package in a terminal server environment.

Summary

Table 3 • WTS06 Summary

Topic	Description
Conflict Type:	Best Practice Rule / Windows Terminal Server Compatibility
Description:	WTS06 checks packages to determine if they contain an executable that does not have the TSAWARE flag enabled.
Result:	If a package contains an executable that does not have the TSAWARE flag enabled, an error is generated.
Resolution Type:	Manual
Resolution:	To resolve this error, remove from the package the executable that does not have the TSAWARE flag enabled.

WTS07: Check for Instances of TerminalServer/RemoteAdminTS Conditions

WTS07 checks the LaunchCondition table of a package for instances of TerminalServer or RemoteAdminTS conditions. The WTS07 warning/error string is displayed in the following format:

The InstallExecuteSequence/InstallUISequence table has a Type 19 CustomAction [ACTION] with the condition [CONDITION]. This may affect the deployment of this package in a terminal server environment.

OR

The LaunchCondition table has the condition [CONDITION]. This may affect the deployment of this package in a terminal server environment.

Summary

Table 4 • WTS07 Summary

Topic	Description
Conflict Type:	Best Practice Rule / Windows Terminal Server Compatibility
Description:	WTS07 checks a package for instances of TerminalServer/RemoteAdminTS conditions.
Result:	If package includes an instance of a TerminalServer/RemoteAdminTS condition, a warning/error is generated.
Resolution Type:	Manual
Resolution:	This issue cannot be resolved unless it is possible to delete the TerminalServer/RemoteAdminTS condition from the package. Contact the software vendor to determine the ramifications of removing the condition.

WTS08: Checks for 16-Bit Applications

WTS08 checks a package for 16-bit applications; 16-bit applications will not run on Windows 2008 R2 because it is a 64-bit platform. The WTS08 error string is displayed in the following format:

The binary '[FILE_NAME]' in package '[PACKAGE_NAME]'('[PACKAGE_NAME]') is 16-bit. This affects the deployment of this package in a terminal server environment.

Summary

Table 5 • WTS08 Summary

Topic	Description
Conflict Type:	Best Practice Rule / Windows Terminal Server Compatibility
Description:	WTS08 checks a package for 16-bit binary files.
Result:	If a package includes a 16-bit binary file (.exe, .dll, or .ocx) , an error is generated.
Resolution Type:	Manual
Resolution:	To resolve this error, remove the specified 16-bit binary file from the Windows Installer package.

WTS09: Checks for Files Manifested to Run as Administrator

WTS09 checks a package for applications manifested to run as Administrator. These packages will typically not be good candidates to run in a per user environment because users of Terminal Services typically do not have Admin privileges. The WTS09 error string is displayed in the following format:

The binary '[FILE_NAME]' in package '[PACKAGE_NAME]'('[PACKAGE_NAME]') is manifested to run as Administrator. This affects the deployment of this package in a terminal server environment.

Summary

Table 6 • WTS09 Summary

Topic	Description
Conflict Type:	Best Practice Rule / Windows Terminal Server Compatibility
Description:	WTS09 checks a package for binary files manifested to run as Administrator.
Result:	If a package includes a binary file (.exe, .dll, or .ocx) that is manifested to run as Administrator, an error is generated.
Resolution Type:	Manual
Resolution:	The only way to resolve this error is to remove the specified binary file that is manifested to run as Administrator from the Windows Installer package.

Microsoft App-V 4.6 SP1 Support

AdminStudio 10.0 SP1 now supports App-V 4.6 SP1.

- AdminStudio 10.0 SP1 has the ability to create, test, edit and store Microsoft App-V 4.6 SP 1 packages.
- AdminStudio 10 SP1 App-V package creation supports the new feature in App-V 4.6 SP1 allowing the use of long names for the root folder of an App-V package. This removes the previous limitation of requiring the use of a 8.3 long file name.

Windows 7 SP1 and Internet Explorer 9 Support

AdminStudio has been updated to run on and support the recent release of Windows 7 Service Pack 1. Also, all AdminStudio components that are accessed via a Web browser can be rendered in Internet Explorer 9.

AdminStudio 10.0

AdminStudio 10.0 provides a single solution to convert and manage both traditional and virtual application packages, giving application readiness teams a centralized repository and consistent management processes for all deployment types.

AdminStudio 10.0 includes the following new features:

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- [Bulk Import of App-V Virtual Packages Using Application Manager Configuration File](#)
- [InstallShield 2011](#)

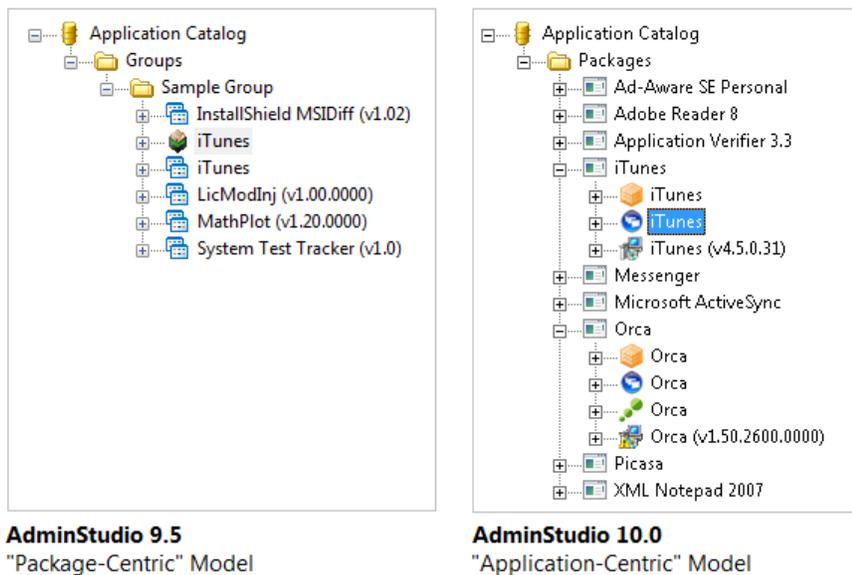
New “Application-Centric” Organization Model in Application Manager

In previous releases of Application Manager, you could import multiple package deployment types into the Application Catalog (such as Windows Installer files, App-V packages, ThinApp packages, Citrix profiles). However, each of these deployment types—even those from the same parent application—were listed separately in the Application Manager tree structure. The only way to group an application’s various deployment types together was to create a group and manually organize them.

In AdminStudio 10.0, Application Manager now uses an “application-centric” model, with the Application Manager tree restructured to display multiple deployment formats under a parent Application node.

Application Manager

Moving From a "Package-Centric" to an "Application-Centric" Model



AdminStudio 9.5
"Package-Centric" Model

AdminStudio 10.0
"Application-Centric" Model

Figure 9: AdminStudio 10.0’s Application-Centric Model

The restructured Application Manager provides the same full functionality as previous versions:

- **Automatic Application node creation**—An Application node will be created automatically each time a package is imported into the Application Catalog, or the user can manually create one in any Application Manager group.
- **Unique subnodes and context menus**—The Application node, as well as the various Deployment Type nodes, have unique subnodes and context menus appropriate for that type.
- **Software repository functionality**—All software repository functionality (such as check-in, check-out) is available for each of the deployment types.

Import Microsoft App-V Packages Into Your Application Catalog and Manage All Data

AdminStudio 10.0 provides even more support for the creation and management of Microsoft App-V packages:

- [Enhanced App-V Data Visibility in Application Manager](#)
- [Virtual Package Validation and Conflict Analysis](#)

Enhanced App-V Data Visibility in Application Manager

In AdminStudio 9.5, you could import App-V packages into the Application Catalog, but the amount of information that you could view in Application Manager for that package was very limited.

In AdminStudio 10, AdminStudio now uses Microsoft SQL Reporting Services to provide comprehensive application data reports for App-V packages, including the following information:

- Files/Directories
- Registry
- Shortcuts
- File Type Associations
- Environment Variables
- App-V History

Many of these reports offer drill-down functionality, enabling you to view even more detailed information, and can be printed separately, or saved in PDF, Microsoft Excel, or Microsoft Word format.

Virtual Package Validation and Conflict Analysis

In AdminStudio 10.0, you can validate App-V packages by performing static tests and conflict analysis.

- **Validation**—You can run static tests to ensure that Microsoft App-V best practices have been followed and to detect missing components.
- **Conflict analysis and resolution**—You can also perform conflict analysis to identify the following possible points of conflicts between App-V packages and between App-V and Windows Installer packages:
 - Shortcut location conflicts
 - App-V package GUID conflicts
 - Package name conflicts
 - File extension and PROGID conflicts
 - App-V conflicts in root folder paths
 - App-V shortcut name and version conflicts

You can then use the Virtual Package Editor to edit App-V packages to resolve any issues or conflicts that were identified.

Virtual Package Editor

AdminStudio 10.0 provides a Virtual Package Editor which you can use to view and edit Microsoft App-V packages.

You can use the Virtual Package Editor to fix any conflict or validation error that you discover when performing validation and conflict analysis. It provides the following benefits:

- **Familiar, user-friendly interface**—The Virtual Package Editor incorporates the best-of-class user interface elements from both Microsoft Sequencer and InstallShield, using the familiar InstallShield tree structure—meaning that the learning curve for new users will be minimal.
- **View and edit package data**—Using the Virtual Package Editor, you can view and edit the files, folders, registry keys, environment variables, shortcuts, file associations, global properties, and build settings of App-V packages.
- **Edit scripts**—The Virtual Package Editor provides script-editing capability in a dockable pane.

The Virtual Package Editor includes the following views:

View	Description
General Information	Use to view and change settings that are global across the virtual package, and to view the package's revision history.
Dependencies	Use to specify dependency packages currently used for App-A's Dynamic Suiting.
Files and Folders	Use to view, change, or extract the files, folders, and VFS paths of the items in the virtual file system.
Registry	Use to view or change the information in your virtual registry.
Shortcuts	Use to view and change the entry points to your virtual package (shortcuts, file extensions, and verbs) as well as the behavior of your package when launched through a shortcut (using environment variables and scripts).
Virtual Services	Use to view and change the virtualized Windows Services available within your virtual package.

Advanced Reports and Dashboards

AdminStudio 10.0 provides an enhanced reporting infrastructure. AdminStudio has incorporated Microsoft SQL Reporting Services to provide a summary dashboard of Application Catalog readiness data and to enable you to create customizable reports.

- [Application Readiness Dashboard](#)
- [Customizable Reports](#)

Application Readiness Dashboard

AdminStudio now uses Microsoft SQL Reporting Services to generate an Application Readiness Dashboard. This dashboard report provides a snapshot of the current status of packages in your Application Catalog including deployment type breakdown, virtualization readiness, and package quality and conflict testing summary information. You can click on any chart to open more detailed reports.

The Application Readiness Dashboard includes the following information:

- **Deployment Type Breakdown**—Provides a graph listing the percentage of packages in the Application Catalog by deployment type (Windows Installer, App-V, XenApp, ThinApp, or Legacy).
- **Error Category Breakdown**—Shows the number of AdminStudio Best Practices and Conflict errors that have been identified in Windows Installer and App-V packages, by category.
- **Virtualization Readiness**—Shows a summary of the virtualization status of packages in the Application Catalog, identifying packages as being Ready for Virtualization, Not Suitable for Virtualization, Already Virtualized, or Not Tested.
- **Windows Installer/App-V Package Quality**—Shows the Microsoft Validation status of Windows Installer packages, and the AdminStudio Best Practices test status of Windows Installer and App-V packages.
- **Windows Installer/App-V Package Conflicts**—Shows the AdminStudio Conflict test status of Windows Installer and App-V packages.

Customizable Reports

In AdminStudio 10.0, you can create your own RDLC-driven custom reports that are generated using Microsoft SQL Reporting Services. To create a custom report, you will need to create an RDLC file using a tool like Microsoft Visual Studio 2010. You will also need to list the RDLC file along with its details, such as data sources and parameters, in a central configuration file (XML) so that the AdminStudio reporting engine will understand how to load it.

Application Compatibility Testing with Compatibility Solver

In AdminStudio 10.0, a new tool named Compatibility Solver is provided to test for application readiness on Microsoft Windows 7 (32-bit and 64-bit) and Windows Server 2008 R2 platforms, as well as compatibility with Internet Explorer 8.0. You can use Compatibility Solver's automated reporting and fixing infrastructure to prepare packages for platform migrations, ensuring application compatibility and reducing installation issues.

Compatibility Solver's Web application compatibility testing is designed to deliver fast, accurate web application compatibility information to assist decision making when considering browser and/or OS migrations. It automates the assessment of migration tasks when changing between different versions of an Internet browser, such as those encountered when upgrading from Internet Explorer version 6 to version 8.

Distributing Packages to Microsoft System Center Configuration Manager

In previous releases of AdminStudio, you could use the Microsoft System Center Configuration Manager Web Console, a Web-based application, to configure package distribution options and distribute setup packages without going to Configuration Manager Server.

In AdminStudio 10.0, you can publish Windows Installer and App-V packages to Configuration Manager Server directly from the Distribution Wizard client tool.

Citrix XenApp 6 Support

You can use AdminStudio to create Citrix profiles for deployment on Citrix XenApp. AdminStudio 10.0 now supports Citrix XenApp 6.

Bulk Import of App-V Virtual Packages Using Application Manager Configuration File

Application Manager can use a configuration file to perform a bulk import of packages into the Application Catalog via command line. To accommodate the bulk import of App-V virtual packages using the Application Manager configuration file, the parameters for specifying the files to import were updated starting in AdminStudio 10.0.

Previously, you had to individually specify the number of MSI, MSM, and Other Setup Type files that you were going to import in the [General] section of the configuration file (using the MSIFile=n, MSMFile=n and OtherSetupFile=n parameters), and then specify the parameters for each package to import in its own section that started with [MSIFile-n], [MSMFile-n] or [OtherSetupFile-n].

In AdminStudio 10.0, the total number of packages (of any deployment type) to import can now be specified using one parameter in the [General] section: PackageFile=n. And the parameters for each package (of any deployment type) to import are specified in a separate section entitled [PackageFile-n]. For example, the following configuration file would import two files: one Windows Installer package and one App-V package:

```
[GENERAL]
DatabaseType=SQL
LogFile=D:\server10\ImportLog.txt
PackageFile=2
.
.
.
[PackageFile-1]
File=D:\server10\xml\notepad2007\XmlNotepad.msi
Group=RootGroup\SubGroup1
Transform1=\\server\Data1.mst
EA1=Business Criticality;Business Critical
EA2=Installation Instructions;\\filesrv\docs\VirtualizationNotes.docx

[PackageFile-2]
File=D:\server10\packages\app2000.sft
Group=RootGroup\SubGroup2
```

For more information, see [Application Manager Configuration File](#).

InstallShield 2011

AdminStudio 10.0 includes InstallShield 2011, which offers many new features and enhancements that will help you use the latest technologies and save time on everyday tasks. New features include:

- **Integration with Team Foundation Server**—If you use Team Foundation Server, you can now take advantage of the new tight integration with InstallShield as you develop, maintain, build, test, and deploy your products and their installations.
- **Custom source locations for prerequisites**—You can now specify custom source locations for InstallShield prerequisites. This flexibility enables you to easily add to your projects InstallShield prerequisites that are stored in source code control and to share a common set of prerequisites across multiple machines.
- **Emphasize your brand**—You can now specify a custom icon and custom version resource properties for setup.exe and update.exe.
- **Streamline build process**—You can now streamline your build process by specifying commands that run before, during, and after builds.
- **64-bit support**—Several new advancements in InstallShield 2011 make it easier for you to create 64-bit installations or 64-bit App-V packages.
- **Standalone Build tool**—InstallShield 2011 includes a command-line Standalone Build tool that enables you to install on build machines only the part of InstallShield that builds the installations, plus any redistributables that you want to include. The Standalone Build is now included with the Professional and Premier editions of InstallShield. If you need extra licenses of the Standalone Build, you can also now purchase them separately.

Detailed List of New Features

The following table provides a more detailed list of the new features included in InstallShield 2011:

Category	Feature
Enhanced Prerequisites Support	<ul style="list-style-type: none"> ● New InstallShield prerequisites for SQL Server 2008 R2 Express, SQL Server Native Client, Visual C++ 2010, and other redistributables ● Ability to specify a search path for InstallShield prerequisites; path variable and relative path support for source locations of prerequisite files
Enhanced Microsoft Integration/Support	<ul style="list-style-type: none"> ● Integration with Team Foundation Server (TFS) ● Microsoft SQL Server 2008 R2 Support ● Ability to import Visual Studio setup and merge module projects into existing InstallShield projects; improvements for the project converter ● Windows Installer 5 support for configuring Windows Service permissions

Category	Feature
Installer Design Enhancements	<ul style="list-style-type: none"> ● New hyperlink control for Windows Installer-based dialogs ● Ability to specify a custom icon and custom version resource properties for setup.exe and update.exe ● Ability to specify commands that run before, during, and after builds ● Ability to set an expiration date for setup.exe ● Support for looping through image billboards in Basic MSI projects
64-Bit OS Support	<ul style="list-style-type: none"> ● Ability to create 64-bit Microsoft App-V packages ● 64-bit support for Repackager ● Support for 64-bit managed-code custom actions ● Support for 64-bit .NET installer classes and COM interop
FlexNet Connect	<ul style="list-style-type: none"> ● New FlexNet Connect 12.01 redistributables available
Other	<ul style="list-style-type: none"> ● Predefined system searches for SQL Server 2008 Express SP1 and Adobe Reader 9 ● Ability to override path variables for a release ● Ability to configure MIME types for IIS web sites, applications, and virtual directories ● Ability to overwrite existing IIS application pool or only create it if it does not exist

For more information on the new features and enhancements in InstallShield 2011, see the [InstallShield 2011 Release Notes](#).

Components/Editions

AdminStudio 10.0 is available in Standard, Professional, and Enterprise Editions. You have the option of purchasing an additional Virtualization Pack and Application Compatibility Pack. Also, functionality varies depending upon whether you have purchased the Per Admin pricing model or the Per Desktop pricing model.

Edition	AdminStudio	Virtualization Pack	Application Compatibility Pack
Standard	<p>Tools</p> <ul style="list-style-type: none"> ● Repackager ● Distribution Wizard ● FlexWrap ● InstallShield 2011 ● Tuner ● Application Isolation Wizard <p>Functionality</p> <ul style="list-style-type: none"> ● Windows Installer repackaging ● Windows Installer customization ● Preparation for distribution 	<p>Tools</p> <ul style="list-style-type: none"> ● Automated Application Converter (Single Application Version) ● Virtual Package Editor ● Microsoft App-V Assistant ● ThinApp Assistant ● Citrix Assistant <p>Functionality</p> <ul style="list-style-type: none"> ● Convert to virtual applications ● App-V package editing 	N/A

Edition	AdminStudio	Virtualization Pack	Application Compatibility Pack
Professional	<p>Tools</p> <p>Same as Standard, plus:</p> <ul style="list-style-type: none"> ● ConflictSolver ● Application Manager ● OS Snapshot Wizard ● QualityMonitor ● Predeployment Test <p>Functionality</p> <p>Same as Standard, plus:</p> <ul style="list-style-type: none"> ● Application management ● Testing, validation, and conflict testing ● Standard reporting 	<p>Tools</p> <p>Same as Standard, plus:</p> <ul style="list-style-type: none"> ● Automated Application Converter (Single Application Version) with Virtualization Suitability Testing <p>Functionality</p> <p>Same as Standard, plus:</p> <ul style="list-style-type: none"> ● Test for virtualization suitability ● Store App-V data in Application Manager ● App-V package testing, validation, and conflict testing ● Automated conversion of legacy packages to Windows Installer 	<p>Tools & Functionality</p> <p>Compatibility Solver with the following functionality:</p> <ul style="list-style-type: none"> ● Project-level compatibility assessment and cost/effort reporting for all applications ● Application testing and reporting for Windows 7 (32- and 64-bit versions) ● Auto-fixing for Windows 7 and Windows Server 2008 R2
Professional Complete	Includes Professional Edition with both the Virtualization Pack and the Application Compatibility Pack .		
Enterprise (Per Admin)	<p>Tools</p> <p>Same as Professional, plus:</p> <ul style="list-style-type: none"> ● PackageExpert ● OS Security Patch Wizard ● Job Manager ● Report Center ● Software Repository ● Security Console <p>Functionality</p> <p>Same as Professional, plus:</p> <ul style="list-style-type: none"> ● Application Readiness Dashboard ● Process and workgroup management features 	<p>Tools</p> <p>Same as Professional, plus:</p> <ul style="list-style-type: none"> ● Automated Application Converter (Multiple Application Version) with Suitability Testing <p>Functionality</p> <p>Same as Professional, plus:</p> <ul style="list-style-type: none"> ● Automated conversion of multiple packages to virtual applications ● Automated conversion of multiple legacy packages to Windows Installer ● Application Readiness Dashboard (Including Virtualization Reports) 	<p>Tools & Functionality</p> <p>All of the Compatibility Solver functionality available in Professional, plus:</p> <ul style="list-style-type: none"> ● Detailed compatibility assessment reports ● Application testing and reporting for Windows 7 (32- and 64-bit versions), and Windows Server 2008 R2

Edition	AdminStudio	Virtualization Pack	Application Compatibility Pack
Enterprise (Per Admin) Complete	Includes Enterprise Edition (Per Admin) with both the Virtualization Pack and the Application Compatibility Pack .		
Enterprise (Per Desktop)	Tools & Functionality Same as Enterprise (Per Admin)	Tools & Functionality Same as Enterprise (Per Admin)	Tools & Functionality All of the Compatibility Solver functionality available in Enterprise (Per Admin) , plus: <ul style="list-style-type: none"> ● Testing can be done on groups of applications at a time Web Application Compatibility Pack (Optional Add-On) <ul style="list-style-type: none"> ● Test compatibility of web applications with Internet Explorer 8 browser ● Test integration of desktop application with Internet Explorer 8 browser
Enterprise (Per Desktop) Complete	Includes Enterprise Edition (Per Desktop) with both the Virtualization Pack and the Application Compatibility Pack .		
	<i>Note • Web Application Compatibility Pack is available as an optional add-on feature.</i>		

System Requirements

This section lists the requirements for AdminStudio client tool machine, Application Catalog database server, Web server, Software Repository server, and virtual machines.

AdminStudio Client Tool Machine

The recommended system configuration for a machine running the AdminStudio client tools is:

Item	Description
Processor	32-bit (x86) or 64-bit (x64) processor at 1 GHz or greater
RAM	1 GB
Hard Disk	1.1 GB
Display	Designed for XGA at 1024 x 768 resolution or higher
Operating System	Windows 7 SP1, Windows 7, Windows Vista, Windows XP (SP1 or later is recommended), or Windows Server 2003 or later. Predeployment Test and Configuration Manager Web Console require Microsoft IIS 5 or later.
Browser	Microsoft Internet Explorer 5.5 or later
Privileges	Administrative privileges on the system

Application Catalog Database Server

The recommended system configuration for a database server to store AdminStudio application catalog databases is:

Item	Description
Processor	32-bit (x86) or 64-bit (x64) processor at 1 GHz or greater
RAM	1 GB or greater (2 GB preferred)
Hard Disk Space	80 GB or greater
Operating System	Windows Server 2003 or later
Database Software	AdminStudio supports SQL Server 2005 or later databases. SQL Server must be installed with case-insensitive dictionary sort order and ISO-8859-1 character set. (Use <code>sp_helpsort</code> T-SQL command for more information.)

AdminStudio Web Server

The recommended system configuration for a machine running the AdminStudio Enterprise Server tools (Security Console, Report Center, Job Manager) is:

Item	Description
Processor	32-bit (x86) or 64-bit (x64) processor at 1 GHz or greater
RAM	1 GB or greater (2 GB preferred)
Hard Disk Space	100 GB or greater
Operating System	Windows Server 2003 or later
IIS	IIS 6.0 or later
	<i>Note • AdminStudio Web Server also supports IIS 7.0 or later if IIS 6.0 compatibility mode is turned on.</i>
.NET	.NET Framework 3.5 SP1 (including ASP.NET 3.5 SP1 registered with IIS)
MSXML	MSXML 4.0
Running on a Domain Controller	If running on a domain controller, you will have to implement one of the procedures described in the Microsoft Developer Network topic Running ASP.NET on a Domain Controller , available at: http://msdn2.microsoft.com/en-us/library/aa579070.aspx

Software Repository Server

The recommended system configuration for the machine that stores the Software Repository files is:

Item	Description
Processor	512 MHz or greater
RAM	512 MB or greater
Hard Disk Space	100 GB or greater
Operating System	Windows Server 2003 or later

Virtual Machines



Edition • Automated Application Converter is included in the AdminStudio Virtualization Pack.

Automated Application Converter performs automated repackaging on virtual machines. This section lists the virtual machine platform and virtual machine image system requirements.

- [Supported Virtual Machine Platforms](#)
- [VMware Requirements](#)
- [Microsoft Hyper-V Server Requirements](#)
- [Virtual Machine Image Requirements](#)

Supported Virtual Machine Platforms

The Automated Application Converter supports automated repackaging on virtual machines from the following platforms:

- VMware ESX/ESXi Server, Version 3.5 Update 3 or later
- VMware Workstation 6.5 or later
- Microsoft Hyper-V Server 2008 R2 or later

VMware Requirements

As described above, Automated Application Converter supports automated repackaging on VMware ESX/ESXi Server and VMware Workstation.

- [VMware VIX API Requirement](#)
- [VMware ESX/ESXi Server Permission Requirements](#)

VMware VIX API Requirement

In order for the Automated Application Converter to perform automated repackaging, it needs to communicate with the virtualization technology that you are using. If you are using VMware virtualization technology (VMware ESX or ESXi Server or a local VMware Workstation), you need to have the VMware VIX API installed on the same machine as the Automated Application Converter. You can do this by either installing VMware Workstation on that machine or by downloading and installing the VMware VIX API from the following location:

<http://www.vmware.com/support/developer/vix-api>



Note • It is recommended that you always install the latest version of VMware VIX so that you have the most options and the latest bug fixes.

VMware ESX/ESXi Server Permission Requirements

If you plan to use a VMware ESX/ESXi Server in conjunction with Automated Application Converter, make sure that the account that you use to log in to this server has the permissions/roles needed to automatically open a VM using VMware VIX API. The account needs to either have an administrator role assigned or, at least, have the following three roles assigned:

- All Privileges/Virtual Machine/State/Create Snapshot
- All Privileges/Virtual Machine/State/Delete Snapshot
- All Privileges/Virtual Machine/Interaction/Console Interaction

If the login account does not have these permissions/roles, Automated Application Converter will be unable to automatically boot up a virtual machine on that server.

Microsoft Hyper-V Server Requirements

As described above, Automated Application Converter supports automated repackaging on Microsoft Hyper-V Server. When preparing a Hyper-V Server for use with Automated Application Converter, make sure that the following conditions are met:

- **Configuration tools**—Verify that the Hyper-V configuration tools are installed on the Hyper-V server machine. These tools can be installed using the Microsoft Hyper-V Management Console.
- **Connection**—Verify that you can successfully connect to the Hyper-V Server from the machine where AdminStudio Automated Application Converter is installed.
- **Permissions**—Make sure that the Hyper-V Server user has the permissions required to perform operations on the Hyper-V machines.
- **Configuration settings**—Connecting to a WMI namespace on a remote computer running Windows Vista or Windows Server 2008 may require changes to configuration settings. Check the following configuration settings on the AdminStudio machine as well as on the Hyper-V Server machine:
 - Windows Firewall Settings
 - User Account Control (UAC) Settings
 - DCOM Settings
 - Common Information Model Object Manager (CIMOM) Settings

For detailed information, see [Connecting to WMI Remotely](#) at:

[http://msdn.microsoft.com/en-us/library/aa822854\(VS.85\).aspx](http://msdn.microsoft.com/en-us/library/aa822854(VS.85).aspx)

Virtual Machine Image Requirements

Automated Application Converter uses virtual machines to perform automated repackaging. These virtual machines have the following requirements:

Virtual Machine System Requirements

When creating a virtual machine image that will be hosted on one of the virtual machine platforms listed above, the recommended minimum requirements should meet those required by the applications you are trying to repack. Since you repack on the target deployment platform, the virtual machine image should closely resemble the target deployment environment.

Preparing Your Virtual Machines for Use With the Automated Application Converter

You need to prepare each virtual machine that you are going to use with the Automated Application Converter to perform automated repackaging by running the Virtual Machine Preparation setup and by creating a snapshot. For instructions, see [Preparing Your Virtual Machines for Use With the Automated Application Converter](#).

Resolved Issues

This section describes the resolved issues in the following versions of AdminStudio:

- [AdminStudio 10.0 SP1](#)
- [AdminStudio 10.0](#)

AdminStudio 10.0 SP1

This section describes the customer issues that were resolved in AdminStudio 10.0 SP1:

Issue Number	Issue Summary
IOB-000060588	AdminStudio 10.0 Professional Edition with Virtualization Pack and AdminStudio 10.0 Professional Complete Edition did not include the Application Manager Run Virtualization Readiness option and the Virtualization Suitability node.
IOA-000063478	Unable to perform a bulk import of packages into the Application Catalog using a configuration file when a package count was not present in the [General] section of the file.
IOA-000062805	If you attempt to use the Process Template Editor to edit a Workflow after a Project using that Workflow has been created, the Process Template Editor will crash.
IOA-000062513	When using Automated Application Converter to directly convert a Windows Installer package to a virtual package, if that Windows Installer package had an associated transform that includes files, an Application File not found warning was generated.

Issue Number	Issue Summary
IOA-000061968	Even after activating AdminStudio, you were still being prompted to activate Configuration Manager Web Console each time it was launched.
IOB-000060317	If you install AdminStudio 10 on a machine that has a French language Windows operating system, you are unable to evaluate Compatibility Solver. Whenever you launch Compatibility Solver in evaluation mode, a license conversion error is displayed and you are prompted to activate it.
IOA-000061471	The documentation for Error -4310 needs to mention that this error also occurs if the virtual machine AutoRepack_Base snapshot was taken before before the machine was powered off.
IOA-000055387	When AdminStudio is activated through a license server using a concurrent license, the user was unable to launch Remote Repackager.

AdminStudio 10.0

This section describes the customer issues that were resolved in AdminStudio 10.0:

Issue Number	Issue Summary
IOA-000060712	Allow to configure the VFS path for the App-V package.
IOA-000060374	Automated Application Converter crashes soon after launching on a Customer's Windows 7 64-bit VM image.
IOA-000060060	Windows Installer Converter is acting case-sensitive when creating App-V package while dealing with the Path Env variable.
IOA-000059813	The Standalone Repackager Start page includes links to help topics on application virtualization, which is not supported.
IOA-000059707	Unable to enter a hyphen "-" character in user name or email fields.
IOA-000059207	Repackager fails to separate the shortcut target from its parameters when the target points to a non-executable.
IOA-000059079	Automated Application Converter crashes when publishing to Microsoft System Center Configuration Manager.
IOA-000058955	File extension parameters are not captured correctly for dynamic data exchange (DDE) shortcut created by Microsoft Snapshot Viewer 10.0 (Access exported SNP report file viewer).
IOA-000058951	Customer installs and activates AS 9.5 Professional, but the Help About view displays incorrect product name, but correct version; company and contact information, but no product serial number.

Issue Number	Issue Summary
IOC-000085871	The SQL Script AS_System_schema.sql results in syntax error on SQL Server 2008, when run manually.
IOA-000058502	Error message LoadInjectionDriver failed. Error: 123
IOA-000058398	Repackager fails to detect some empty folders created during the install of Octave and also during install of Matlab.
IOA-000058272	Changes made to .irp files are not effective while building/creating a .msi/.ism file unless you click the Save icon.
IOA-000057806	Unable to find JRE when using DSC with JRE on a separate package.
IOA-000057675	Repackager's command line option -app launches Repackager with path enclosed in double quotes
IOA-000057545	Need to ship 64-bit version of SQL Express with AdminStudio installer to make it work on 64-bit machines
IOA-000057189	Automated Application Converter should have its own options.ini file because it can cause conflicts with the global options.ini used in large organizations.
IOA-000056847	An unknown error occurred when performing a ZENworks accessAXT conversion.
IOA-000053875	AdminStudio needs updated .cub files. It is currently shipping with .cub files from Windows Installer 2.x.
IOB-000058916	In Repackager, the Editor project location is truncated if a '.' is included in the path to store files in the wizard.
IOA-000053221	When specifying port in AES URL (in AdminStudio 9.5) for DefaultDatabase, AdminStudio workflows do not complete.
IOA-000053126	Unable to create the MSI_Package Folder that is now included when building a new legacy package in Repackager.
IOA-000053043	Install AES button is disabled on Windows Server 2008 machines.
IOA-000052968	InstallShield installation from AdminStudio 9.5 requires ldapssl.dll and ldapsdk.dll.
IOA-000052954	Shortcuts get included even after excluding them in the Repackager view
IOA-000052047	When specifying port in AES URL for DefaultDatabase, AdminStudio workflows do not complete.
IOA-000051973	After reinstallation, activation, ZENworks Edition shows up as "Enterprise".

Issue Number	Issue Summary
IOC-000080628	The Windows 7 and Windows Server 2008 operating systems are not available in OS list under Profile Requirements view of Citrix XenApp Assistant.
IOA-000047618	Customer requested that the AdminStudio serial number be removed from splash screens.
IOC-000070700	Request for better upload logging for file uploads.
IOC-000063076	Branching with a non-required Single Selection causes exception on edit data.
IOC-000061482	Repackaging Wizard does not check specified Product Name to see if it contains invalid characters.
IOA-000028499	Give customers the option to hide the product serial number on the AdminStudio Help / About dialog box.
IOC-000046951	Choosing an existing AS Shared folder during AS 7 installation corrupts the ACL.