FLEXERA SOFTWARE™

AdminStudio®

AdminStudio 2014
Release Notes

July 24, 2014

Introduction

AdminStudio Suite 2014 is the latest version of Flexera Software's industry-leading solution that powers an enterprise's application readiness process for pivotal migration projects, including virtualization, cloud computing, Windows 7 and 8 migration, and management of mobile applications as well as day-to-day packaging operations.

The new release helps enterprises eliminate much of the risk and inefficiency around preparing mobile applications for deployment via centralized application readiness best practice processes and automation.

Streamlining Mobile App Deployment

AdminStudio Suite 2014 ensures that applications conform with IT's standards and work within an organization's environment by following best practice processes for preparing physical, virtual, and mobile applications. Now organizations can import internally developed mobile apps as well as public links from the Apple® App Store® and Google® Play® to prepare and manage them in conformance to their standard application readiness processes. The solution also allows IT to automatically extract metadata from property files and app stores to streamline distribution of mobile apps to AirWatch® Mobile Device Management and Microsoft® System Center 2012 Configuration Manager.

Test Mobile Apps for Device Operating System (OS) Compatibility

AdminStudio Suite 2014 also enables organizations to automate compatibility testing of mobile apps for error-free deployment to mobile operating systems and devices such as iPads® and iPhones®, helping ensure they function properly. These new capabilities help improve service quality and dependability to end users of both internally developed mobile apps and those from public app stores. IT can also proactively get ahead of the curve by leveraging new AdminStudio Suite 2014 tests that check for mobile app compatibility with the soon-to-be-released iOS8 Developer Preview, allowing organizations to discover in advance which apps are ready for the next iOS update.

Assess Mobile App Portfolio for Risky Behaviors and Compliance with Enterprise Policies

Mobile apps are capable of accessing and exposing critical and sensitive corporate data, presenting challenges to enterprise security. To address this concern, AdminStudio Suite 2014 now is able to identify organizations' mobile apps displaying behaviors that may introduce risk to corporate security and data privacy. The solution provides automated processes that look inside the mobile app property files and APIs to understand what features the app is accessing on the device and outside the companies' firewall in order to identify risky apps for which to establish whitelist and blacklist policies to reduce risk.

Getting to Know Features and Behaviors of Mobile Apps

Strategic use of mobile apps in the enterprise is on the rise, yet there is rarely any institutional knowledge regarding how mobile apps behave when deployed or how to modify that behavior to support enterprise standards. AdminStudio Suite 2014 now provides automated processes that allow IT to look inside the mobile app property files and APIs to understand what the app is accessing on the device (i.e. camera, GPS) and outside the companies' firewall—increasing understanding of the mobile app and OS settings in order to establish appropriate packaging and deployment policies.

Internet Explorer 11 Browser Compatibility Tests

AdminStudio Suite 2014 was also enhanced to provide enhanced compatibility testing to test Web applications for compatibility with Internet Explorer 11.

Support for VMware ThinApp 5.0

New application virtualization compatibility tests were also added to determine if an application is a suitable candidate for conversion to VMware ThinApp 5.0 application format.

Enhanced OS Security Patch Wizard

Using the enhanced OS Security Patch Wizard, you can import Windows update files to discover which applications are impacted by the latest Microsoft OS security patches. The Security Patch Wizard has been enhanced to support Microsoft Update (MSU) patches for Windows 7, Windows 8.x, Windows Server 2012, and 2012 R2.

New Features

This section lists the new features that were included in AdminStudio 2014:

- Enhanced Mobile Application Support

- New Internet Explorer 11 Browser Compatibility Tests

- Virtualization Enhancements

- Enhanced OS Security Patch Wizard

- InstallShield 2014

Enhanced Mobile Application Support

AdminStudio Suite 2014 adds support for importing Google Android internal apps, as well as support for importing public store apps from the Apple App Store and Google Play Store. AdminStudio captures metadata during import, and uses that data along with the results of OS compatibility and risk assessment testing to generate reports that give you the insight you need to successfully deploy these mobile apps. AdminStudio supports deployment of mobile apps to both System Center 2012 Configuration Manager and AirWatch Server.

- Support for Public Store Mobile Apps

- Support for Google Android Mobile Apps

- Integrated with System Center 2012 Configuration Manager's Mobile App Support

- Support for Apple iOS Enterprise Policy Configuration Files

- New OS Compatibility Testing of Google Android and Apple iOS Mobile Apps

- New Risk Assessment Testing of Google Android and Apple iOS Mobile Apps

- Metadata Extraction and Analysis of Mobile Apps

- Enhanced Mobile Application Reporting

Support for Public Store Mobile Apps

In AdminStudio Suite 2014, you can import mobile apps from the following public stores:

- **Apple iOS** mobile apps from the Apple Store

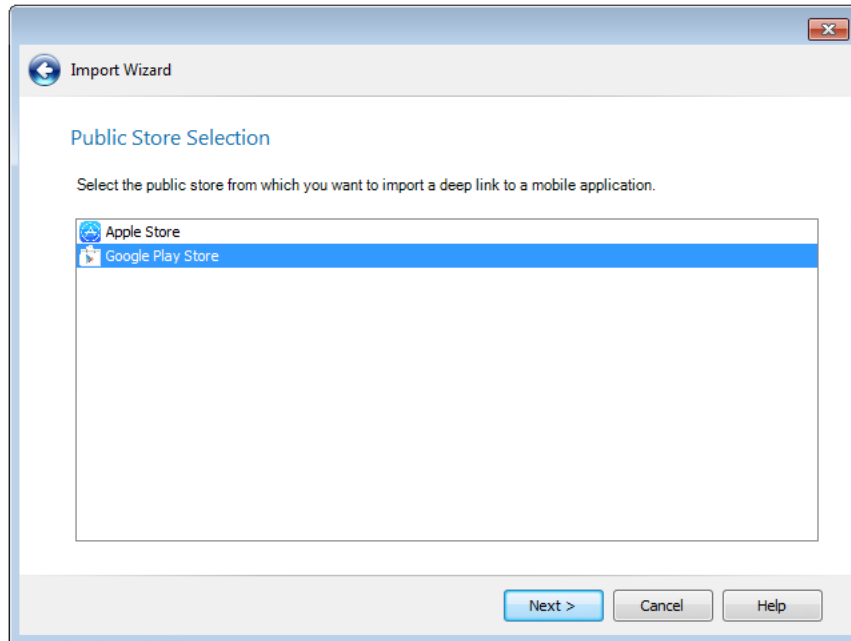- **Google Android** mobile apps from the Google Play Store

Figure 1: Public Store Selection Panel of Import Wizard

When a link to a public store mobile app is imported, metadata is automatically extracted from the application's public store, and that data can be viewed in Application Manager, both on the **General Information** tab of the **Application View** and on the **Tables** view.

After you have tested and analyzed the imported public store mobile apps, you can use the Distribution Wizard to deploy iOS and Android mobile apps (both internal and public store) to Microsoft System Center 2012 Configuration Manager and AirWatch Server.

Support for Google Android Mobile Apps

In AdminStudio Suite 2014, you can import both internal Google Android mobile apps (`.apk` files) and Google Play Store public store apps into the Application Catalog. You can also import Google Android mobile apps directly from System Center 2012 Configuration Manager.

During import, AdminStudio automatically extracts metadata from Android mobile app manifest files and binaries, and captures public store data.

Once imported, you can perform operating system compatibility and risk assessment testing of Google Android mobile apps, and can view the test results in Test Center and in reports on the **Report Center** tab.

Integrated with System Center 2012 Configuration Manager's Mobile App Support

In AdminStudio Suite 2014, you can import the following mobile app types from System Center 2012 Configuration Manager:

- Apple iOS mobile app (internal and public store)

- Google Android mobile apps (internal and public store)

You can also publish these mobile app types from AdminStudio to System Center 2012 Configuration Manager, along with their associated metadata.

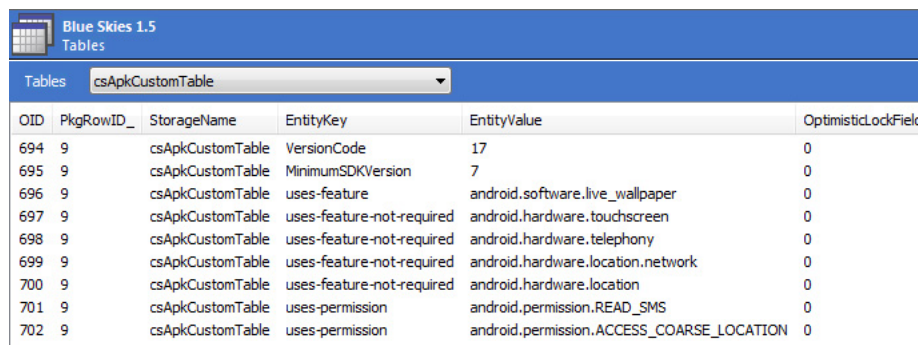# Metadata Extraction and Analysis of Mobile Apps

To enable you to successfully manage mobile apps in your enterprise—both internal mobile apps and those from a public store—AdminStudio Suite 2014 can extract and analyze metadata from those apps.

All of this metadata is needed for operating system compatibility, device compatibility, best practices, and risk and assessment testing, and for feature use reporting. By understanding a mobile app's configuration and property settings, AdminStudio can identify which apps might pose a security risk.

Some of this metadata is included in mobile app manifest files or within the application binaries and associated files. AdminStudio automatically extracts this information during mobile app import. AdminStudio also captures mobile app data from public stores.

For iOS and Android public store mobile apps, you can choose to download the binaries of these apps to store locally (such as in a local iTunes Library or Google Android file share). This enables AdminStudio to scan those binary files, extract metadata, and store it in the Application Catalog along with the public store mobile app.

You can view mobile app metadata on the **General Information** tab of the **Application View** and on the **Tables** view.

			Blue Skies 1.5		
			Tables		
Tables	csApkCustomTable				
OID	PkgRowID_	StorageName	EntityKey	EntityValue	OptimisticLockField
694	9	csApkCustomTable	VersionCode	17	0
695	9	csApkCustomTable	MinimumSDKVersion	7	0
696	9	csApkCustomTable	uses-feature	android.software.live_wallpaper	0
697	9	csApkCustomTable	uses-feature-not-required	android.hardware.touchscreen	0
698	9	csApkCustomTable	uses-feature-not-required	android.hardware.telephony	0
699	9	csApkCustomTable	uses-feature-not-required	android.hardware.location.network	0
700	9	csApkCustomTable	uses-feature-not-required	android.hardware.location	0
701	9	csApkCustomTable	uses-permission	android.permission.READ_SMS	0
702	9	csApkCustomTable	uses-permission	android.permission.ACCESS_COARSE_LOCATION	0

Figure 2: Tables View Displaying Mobile App Metadata

Support for Apple iOS Enterprise Policy Configuration Files

In AdminStudio Suite 2014, you can associate Apple iOS Enterprise Policy Configuration files with iOS mobile applications, making it easier for you to enforce and manage mobile security policies.

Enterprise Policy Configuration files contain the configurations for iPhones, iPads, and iPod Touch devices and policy settings (or rules) that specify what features of a mobile app or device an enterprise user is permitted to use. Policy files contain the following types of settings:

- Device security policies and restrictions

- Wi-Fi settings

- VPN settings

- Email server settings

- Calendar settings

- Exchange settings

- LDAP directory service settings

- Credentials and certificates that permit iPhone and iPad devices to work with your enterprise systems

In AdminStudio Suite 2014, you can import iOS policy configuration files, view their settings, and determine the policy compatibility of the iOS mobile applications in your Application Catalog.

- Viewing Policy Settings on the Enterprise Policy View

- Viewing Policy Compatibility Reports

Viewing Policy Settings on the Enterprise Policy View

After you have imported an iOS Enterprise Policy Configuration file into the Application Catalog, you can view all of the settings in that configuration file on the Application Manager **Enterprise Policy View**, which is available on the **Environment** tree of the **Catalog** tab.

Figure 3: Enterprise Policy View

Viewing Policy Compatibility Reports

After you have imported policy files, you can view reports that show how compatible all of the iOS mobile apps in the Application Catalog are with a specific policy.

You open the Policy Compatibility report by selecting **Mobile > iOS > iOS App - Policy Compatibility** on the **Report Center** tab. Each iOS mobile app is assigned a status based upon a summary of the analysis of all of the features in the policy as to whether they are supported, not supported, required but not supported, or not used.

Figure 4: Compatibility of All iOS Mobile Apps With a Policy

You can also drill down to view reports that show the affect of applying a policy to a single iOS mobile app.

Figure 5: Compatibility of One iOS Mobile App With a Policy

New OS Compatibility Testing of Google Android and Apple iOS Mobile Apps

AdminStudio Suite 2014 includes the following new operating system compatibility tests for Apple iOS and Google Android mobile apps:

- Apple iOS 6

- Apple iOS 7 (32-bit)

- Apple iOS 7 (64-bit)

- Apple iOS 8 (32-bit)

- Apple iOS 8 (64-bit)

- Google Android 4.1 Jelly Bean

- Google Android 4.2 Jelly Bean

- Google Android 4.3 Jelly Bean

- Google Android 4.4 KitKat

New Risk Assessment Testing of Google Android and Apple iOS Mobile Apps

In AdminStudio Suite 2014, you can perform risk assessment testing for both Apple iOS and Google Android mobile apps. A set of approximately 30 tests are run on these mobile apps to determine such things as whether they require the use of a telephone, whether they use a camera, whether they require location services, whether they support in-app purchases, etc. Based on the results of this risk assessment testing, you can determine:

- Whether the mobile app complies with your corporate security policies.

- Whether the app will work on a specific device, such as an iPhone 4 vs. and iPhone 5, or a phone versus a tablet, etc.

Test results from risk assessment testing are displayed on the **Best Practices and Risk Assessment** subtab of the **Test Center Deployment Type View**.

Figure 6: Best Practices and Risk Assessment Tab of Test Center Deployment Type View

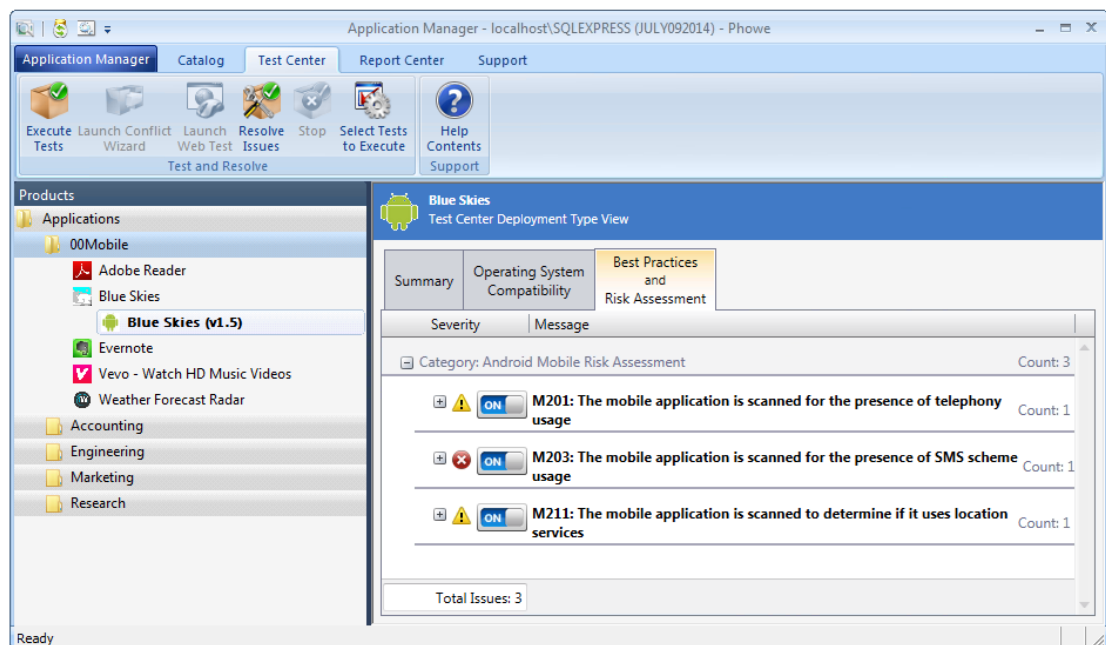You can also view reports based upon risk assessment testing on the **Report Center** tab. For example, the following report shows the compatibility of mobile apps on a specific device (iPad Mini 4G).

Figure 7: Device Compatibility Report

Enhanced Mobile Application Reporting

When a mobile app is imported, AdminStudio Suite 2014 captures metadata for each app. When mobile apps are tested for operating system compatibility, best practices, and risk assessment, additional metadata is generated. Reports displaying this metadata for Apple iOS and Google Android mobile apps can be viewed in on the **Report Center** tab.

The **iOS/Android App Detail** report provides summary charts of the major mobile app reports. You can click some of the icons to view more detailed reports.

Figure 8: iOS App Detail Report

In AdminStudio Suite 2014, the following reports for iOS and Android mobile apps are available:

Table 1 • Mobile App Reports on the Report Center Tab

Report	Description
iOS/Android Mobile Dashboard	Provides summary charts of the major mobile app reports.
iOS/Android App Details	Provides a combined view of the results of the analysis of feature use, feature compatibility with devices, and OS compatibility.
iOS/Android App Feature Use	The summary report displays a bar chart that lists the features that are being used by mobile apps in the Application Catalog and indicates the percentage of those apps that consider each feature to be either optional or required. When you click on a bar segment, a detailed report on an individual feature opens.

Table 1 • Mobile App Reports on the Report Center Tab

Report	Description
iOS/Android App - Device Compatibility	The summary report shows the compatibility of mobile apps on each of its operating system's devices. Each stacked bar indicates the percentage of mobile apps that fall into each of three categories: all features supported, an optional feature is not supported, or a required feature is not supported. Click on a bar segment to view **Device Compatibility** detail reports.
iOS/Android App - OS Compatibility	Shows the compatibility of mobile apps on each of its operating systems. Each stacked bar indicates the percentage of mobile apps that fall into one of two categories: supported by OS or not supported by OS. Click on a bar segment to view **OS Compatibility** detail reports.
iOS App - Policy Compatibility	The summary report shows the feature compatibility of iOS mobile apps on iOS devices for each Enterprise Policy in the Application Catalog. Each stacked bar indicates the percentage of iOS apps that fall into each of three categories: all features supported, an optional feature is not supported, or a required feature is not supported. Click on a bar segment to view **Policy Compatibility** detail reports.
iOS Best Practices and Risk Assessment	Summary reports shows the results of Apple iOS best practices and risk assessment testing to determine a mobile app's readiness for deployment. Mobile apps are assigned one of the following statuses: ready, warning, errors, not tested. You can click on the pie chart segments to view detail reports.

New Internet Explorer 11 Browser Compatibility Tests

AdminStudio Suite 2014 was also enhanced to provide enhanced compatibility testing to test Web applications for compatibility with Internet Explorer 11. All of the tests previously available for Internet Explorer 10 have been customized for Internet Explorer 11, and the following additional tests exclusive to Internet Explorer 11 have been added:

- Unsupported VBScript Code

- Removed JavaScript API Features

- Unsupported Pointer Events

- Flexible Box Changes in CSS Scripts

- Deprecated Property for Cross-browser Plugins

Virtualization Enhancements

AdminStudio Suite 2014 includes the following enhancements to its application virtualization support:

- Ability to Perform Express Conversion to Virtual Packages from Application Manager

- Ability to Upgrade Multiple App-V 4.x Packages to App-V 5.0 Format

- Full Support for Conversion to App-V 5 on Windows 7 Machines

- Support for Microsoft App-V 5.0 SP2

- Support for VMware ThinApp 5.0

Ability to Perform Express Conversion to Virtual Packages from Application Manager

As in prior releases, you can continue to use the Automated Application Converter tool to convert a single package or a group of packages into Microsoft App-V, VMware ThinApp, Citrix XenApp, and Symantec Workspace virtual application formats. Using Automated Application Converter to perform this task enables you to make a wide variety of customizations by editing a package's general and App-V-related properties prior to conversion.

However, in AdminStudio Suite 2014, you can also use the Application Manager **Conversion Wizard** to quickly convert one or multiple Windows Installer packages to virtual packages of the selected target type using *default* Automated Application Converter settings. You perform this "express" conversion using a settings file containing virtual machine login information and conversion defaults.

After you specify the settings file and make other default selections on the Application Manager **Options** dialog box, you just need to select an application or group of applications, and then select **Launch Conversion Wizard** from the context menu. On the **Target Type Selection** panel of the wizard you select the target conversion type.

Figure 9: Target Type Selection Panel of Conversion Wizard

Conversion is initiated directly from Application Manager without having to open Automated Application Converter. Virtual machines are automatically launched (when necessary) and the conversion is performed. When conversion is complete, the newly converted virtual packages are automatically imported into the Application Catalog.

Ability to Upgrade Multiple App-V 4.x Packages to App-V 5.0 Format

In AdminStudio Suite 2014, you can also use the new Application Manager **Conversion Wizard**, described in Ability to Perform Express Conversion to Virtual Packages from Application Manager, to convert one or multiple Microsoft App-V 4.x packages to App-V 5.0 format.

You just need to select an App-V 4.x package, an application containing an App-V 4.x package, or a group containing one or multiple App-V 4.x packages, and then select **Launch Conversion Wizard** from the context menu. When conversion is complete, the newly converted App-V 5.0 packages are automatically imported into the Application Catalog.

Full Support for Conversion to App-V 5 on Windows 7 Machines

When using AdminStudio 2013's native tools to create App-V 5.0 packages, the final build step needed to be performed on a Windows 8 or Windows Server 2012 machine. On Windows 7 operating systems, your only option was to use the Microsoft App-V Sequencer to create App-V packages.

In AdminStudio Suite 2014, this restriction has been removed. You can now use AdminStudio's native tools—Automated Application Converter, Repackager, and the new Application Manager Conversion Wizard—to build App-V 5.0 packages.

Support for Microsoft App-V 5.0 SP2

App-V 5.0 packages created by AdminStudio Suite 2014 fully support the following new features of App-V 5.0 SP2:

- **Shell extensions**—App-V 5.0 packages created by AdminStudio support shell extensions, including:

  - Context menu handler

  - Drag-and-drop handler

  - Drop target handler

  - Data object handler

  - Property sheet handler

  - Infotip handler

  - Column handler

- **ActiveX controls**—App-V 5.0 packages created by AdminStudio support ActiveX controls, which are now registered and supported via the `AppxManifest.xml` file.

- **Browser helper objects**—App-V 5.0 packages created by AdminStudio support browser plug-ins, which aids scenarios where applications need to integrate with Internet Explorer.

- **Side-by-side (SxS) runtime dependencies**—App-V 5.0 packages created by AdminStudio support side-by-side runtime dependencies. App-V 5.0 SP2 automatically detects side-by-side assemblies and deployment on the computer running the App-V 5.0 SP2 client.

- **Full VFS write mode**—App-V 5.0 packages created by AdminStudio support the **Full VFS Write Mode** option, which gives a virtual application full write permissions to its virtual file system files and folders.

  *Note • The **Full VFS Write Mode** feature was introduced in App-V 5.0 SP2 HotFix 4.*

Support for VMware ThinApp 5.0

AdminStudio Suite 2014 provides full support for VMware ThinApp 5.0.

- **VMware ThinApp 5.0 compatibility tests**—New application virtualization compatibility tests have been added to determine if a Windows Installer package is a suitable candidate for conversion to VMware ThinApp 5.0 format.

- **Conversion to VMware ThinApp 5.0 format**—You can use AdminStudio to convert Windows Installer or legacy installers to virtual packages in ThinApp 5.0 format, including 64-bit ThinApp 5.0 packages. AdminStudio will automatically determine the version of the ThinApp client that is installed on the machine, and perform a conversion to the appropriate format.

Enhanced OS Security Patch Wizard

In AdminStudio 2014, the OS Security Patch Wizard has been enhanced to support Microsoft Update (`.msu`) patches for Windows 7, Windows 8.x, Windows Server 2012, and Windows Server 2012 R2.

This enables you to import OS security patch files for those operating systems into the Application Catalog, and then use the Patch Impact Analysis Wizard to analyze the full impact of installing these patches on user machines. Based on the analysis results, you can determine the level of testing you need to perform before distributing a Windows 7, Windows 8.x, Windows Server 2012, or Windows Server 2012 R2 patch throughout your enterprise.

InstallShield 2014

InstallShield is the industry standard for authoring high-quality Windows Installer- and InstallScript-based installations, as well as Microsoft App-V packages. InstallShield 2014 offers new features and enhancements that make it easy to use the latest technologies.

- **New InstallShield prerequisites for the .NET Framework 4.5.1**—InstallShield includes two new .NET Framework–related InstallShield prerequisites that you can add to Advanced UI, Basic MSI, InstallScript, InstallScript MSI, and Suite/Advanced UI projects:

  - Microsoft .NET Framework 4.5.1 Full

  - Microsoft .NET Framework 4.5.1 Web

- **Microsoft SQL Server 2014 support**—InstallShield now includes support for running SQL scripts on SQL Server 2014 database servers. In addition, InstallShield includes SQL Server 2014 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.

- **Microsoft SQL Server 2014 prerequisites**—InstallShield includes several new SQL Server 2014–related InstallShield prerequisites that you can add to Advanced UI, Basic MSI, InstallScript, InstallScript MSI, and Suite/Advanced UI projects:

  - Microsoft SQL Server 2014 Express RTM (x64)

  - Microsoft SQL Server 2014 Express RTM (x86 & x64Wow)

  - Microsoft SQL Server 2014 Express RTM (x86)

  - Microsoft SQL Server 2014 Express RTM LocalDB (x64)

  - Microsoft SQL Server 2014 Express RTM LocalDB (x86)

- **New InstallShield prerequisites for Microsoft Visual C++ 2012 Update 4**—InstallShield includes new InstallShield prerequisites that you can add to Advanced UI, Basic MSI, InstallScript, InstallScript MSI, and Suite/Advanced UI projects:

  - Microsoft Visual C++ 2012 Update 4 Redistributable Package (x86)

  - Microsoft Visual C++ 2012 Update 4 Redistributable Package (x64)

- **Support for checking for updates from Maintenance Mode of Advanced UI and Suite/Advanced UI installations**—Advanced UI and Suite/Advanced UI installations now have support for enabling end users to check for updates to your product by clicking a new Update button on the maintenance wizard page. If an update is available from your Web site and the end user chooses to obtain it, the installation downloads it, verifies its digital signature, and launches it.

- **Ability to include support files in subfolders**—InstallShield now lets you specify custom folder structures for support files.

- **Support for deploying Web Deploy packages to IIS Web servers and the cloud**—Suite/Advanced UI installations now have built-in support for deploying Web Deploy packages to IIS Web servers and the cloud. The Web Deploy packages can be created through IIS or a Web application development environment such as Visual Studio.

- **Support for including InstallShield projects as packages in Suite/Advanced UI projects**—InstallShield now lets you add InstallShield projects (.ism) as packages in Suite/Advanced UI projects.

- **Support for InstallScript actions in Suite/Advanced UI installations**—Suite/Advanced UI installations now have built-in support for launching InstallScript actions to perform various run-time tasks that are outside the scope of the packages that you are including in the installation.

- **Support for managed-code actions in Suite/Advanced UI installations**—Suite/Advanced UI installations now have built-in support for launching managed-code actions to perform various run-time tasks that are outside the scope of the packages that you are including in the installation.

- **Ability to launch Suite/Advanced UI event actions that end users trigger when using wizard interface controls**—Suite/Advanced UI installations include support for run-time actions that are defined in the Events view and that are launched when an end user clicks or performs some other action on a wizard interface control.

- **Ability to launch Suite/Advanced UI actions when wizard pages and windows are shown or hidden**—Suite/Advanced UI installations include support for run-time actions that are launched when a wizard page or secondary window is opened or closed. This capability enables your installation to perform any initialization such as dynamically retrieving values for a combo box. It also lets you schedule actions to occur before the wizard interface is displayed at run time.

- **New property for preventing passwords from being written in Advanced UI and Suite/Advanced UI installation log files**—If you launch an Advanced UI or Suite/Advanced UI Setup.exe file with the /debuglog parameter, the Suite engine generates a debuglog file. By default, the debug log file includes the values of changed Advanced UI or Suite/Advanced UI properties.

- **Enhanced substitution syntax for Advanced UI and Suite/Advanced UI projects**—Various areas of Advanced UI and Suite/Advanced UI projects include support for enclosing property names in square brackets to indicate that the properties should be replaced with appropriate values at run time. The run-time syntax has been enhanced to support several additional types of substitution.

- **Support for removing files and folders**—InstallShield now has built-in support that makes it easy to specify files and folders that you want to be removed from target systems at run time. This file and folder removal capability is useful for scenarios such as removing application-created files that your installation does not otherwise track.

- **Support for DPI-aware installations**—InstallShield now lets you create DPI-aware installations that can scale run-time user interface elements properly across modern target systems that have various high-DPI display settings, making your installation's user interface more consistent and visually appealing. The support that is available and the improvements that have been made vary, depending on the project type that you are using.

- **Support for distributing your installation to virtual machines that InstallShield provisions at build time or on demand**—You can configure your projects so that after each successful build of your installation, InstallShield automatically reverts a virtual machine (VM) to a designated snapshot, powers on the VM, and copies your installation to the VM to make it available for testing. You can also alternately perform these testing preparation steps on demand at any time. The testing preparation capability makes it possible to reduce testing time and eliminate manual steps.

Note • For more information, see the InstallShield 2014 Release Notes, which is posted on the Flexera Software Web site.

Components/Editions

AdminStudio 2014 is available in Standard, Professional, and Enterprise Editions. You can also purchase an additional Application Virtualization Pack, Application Compatibility Pack, and Mobile Pack.

Edition	Add On Pack	Tools	Functionality
Standard	*None*	**Repackager**	• Repackage applications into Windows Installer format • Perform basic ISO tagging, including creation of tag files
		Legacy Distribution Wizard	• Prepare packages for distribution
		InstallShield 2014 (Professional Edition)	• Customize Windows Installer packages by either directly editing them or by creating transforms
		Tuner	• Customize Windows Installer packages by creating transforms
		Application Isolation Wizard	• Resolve component versioning conflicts

	Application Virtualization Pack	**Automated Application Converter (Single Application Version)**
		
		Conversion Wizard (Single Application Version)
			• Convert a package to a virtual application in the following formats:
			  • Microsoft App-V (4.x and 5.0)
			  • Citrix XenApp
			  • VMware ThinApp (4.x and 5.x)
			• Convert one package at a time

		Virtual Package Editor	• Edit App-V packages
		Microsoft App-V, ThinApp, and Citrix Assistants	• Create a customized virtual package from an InstallShield project

Edition	Add On Pack	Tools	Functionality
Professional	*None*	*Same as Standard, plus:*	
		Application Manager / Catalog Tab	• Manage applications in an Application Catalog database • Manage a package's System Center 2012 Configuration Manager and Symantec Altiris Client Management Suite deployment data • View an application's System Center 2012 Configuration Manager deployment status • Perform advanced ISO tag file creation, editing, and storage
		Application Manager / Test Center Tab	• Perform tests in the following categories: • Windows Installer Internal Consistency Evaluators • Windows Installer Best Practices • Application Conflicts • Test and fix one package at a time
		OS Snapshot Wizard	• Capture basic operating system configuration in an OS Snapshot, which can be imported into the Application Catalog to check for potential OS conflicts
		QualityMonitor	• Perform Windows Installer testing, including testing in a locked down environment

Edition	Add On Pack	Tools	Functionality
Professional (Continued)	**Application Virtualization Pack**	*Same as Standard, plus:*	
		Automated Application Converter (Single Application Version) **Conversion Wizard (Single Application Version)**	• Convert a package to a virtual application in the following formats: • Symantec Workspace
		Enhancements to **Application Manager / Catalog**	• Import virtual packages into Application Catalog • View virtual package data in Application Manager • Manage System Center 2012 Configuration Manager deployment data for App-V 4.x and 5.0 packages • Manage Citrix XenApp Server deployment data for Citrix XenApp profiles and App-V 4.x packages • Manage Symantec Altiris Client Management Suite deployment data for Symantec Workspace and VMware ThinApp packages
		Enhancements to **Application Manager / Test Center**	• Test packages for compatibility to be virtualized to App-V, ThinApp, XenApp, and Symantec Workspace formats • Test App-V packages for best practices • Test App-V packages for conflicts
		Enhancements to **Distribution Wizard**	• Publish App-V packages to System Center Configuration Manager and Citrix XenApp Server • Publish Citrix XenApp profiles and App-V 4.x packages to Citrix XenApp Server • Publish Symantec Workspace and VMware ThinApp packages to Symantec Altiris Client Management Suite Server

Edition	Add On Pack	Tools	Functionality
Professional (Continued)	**Application Compatibility Pack**	Enhancements to **Application Manager / Test Center**	• Test packages for compatibility with the following operating systems: • Microsoft Windows 7 (32-bit and 64-bit) • Windows 8 (32-bit and 64-bit) • Windows Server 2008 R2 • Windows Server 2012 • On the **Operating System Compatibility** tab of the Test Center **Deployment Type View**, you can see detailed data for only the last package tested; for all other packages in the Application Catalog, this tab is blank (even if the package has been previously tested) • Ability to display Microsoft Application Compatibility Toolkit (ACT) database test results on **ACT Summary** tab of the **Test Center Deployment Type View**

Edition	Add On Pack	Tools	Functionality
Professional (Continued)	**Mobile Pack**	Enhancements to **Application Manager / Catalog**	• Import of the following mobile app formats into the Application Catalog: • Apple iOS mobile apps (internal and public store) • Google Android mobile apps (internal and public store) • Microsoft Windows Store mobile apps • Ability to import iOS Enterprise Policy Configuration files, view their settings, and determine the policy compatibility of iOS mobile apps. • Ability to view iOS and Android mobile app reporting on feature use, device compatibility, and OS compatibility • Ability to view deployment data for Windows Store mobile apps, including detection methods and framework customizations • Ability to manage AirWatch Server deployment data for both Apple iOS and Google Android mobile apps (internal and public store)
		Enhancements to **Distribution Wizard**	• Ability to publish the following mobile app formats to System Center 2012 Configuration Manager R2 and AirWatch Server: • Apple iOS mobile apps (internal and public store) • Google Android mobile apps (internal and public store)

Edition	Add On Pack	Tools	Functionality
Enterprise	*None*	*Same as Professional, plus:*	
		InstallShield 2014 (Premier Edition instead of Professional Edition)	• Advanced customization of Windows Installer packages by either directly editing them or by creating transforms
		AdminStudio Virtual Desktop Assessment (Limited Edition)	• Monitor the behavior of computers, users, and applications in your enterprise and gather data on the desktop environment • In Test Center, perform testing to determine whether a Windows Installer package is a suitable candidate for conversion to a virtual desktop
		Application Manager / Report Center	• Advanced reports including detailed summary and dashboard reports on Test Center test results, package data, and deployment information
		Platform API	• Use to integrate your existing .NET applications or scripting environments like Microsoft PowerShell with AdminStudio
		Software Repository	• Secure storage system for AdminStudio package data, including version management
		OS Security Patch Wizard	• Import Windows OS patches for Windows 7, Windows 8.x, Windows Server 2012, and Windows Server 2012 R2 into the Application Catalog in order to test the impact they will have on your environment before they are deployed
		Report Center (Web Tool)	• Generate reports on packages stored in the Application Catalog, including reports using custom SQL queries
		Security Console (Web Tool)	• Manage AdminStudio user accounts and directory services • Manage AdminStudio roles and permissions

Edition	Add On Pack	Tools	Functionality
Enterprise (Continued)	**Application Virtualization Pack**	*Same as Professional, plus:*	
		Automated Application Converter (Multiple Application Version) **Conversion Wizard (Multiple Application Version)**	• Ability to perform automated conversion of multiple packages at a time
		Enhancements to **Application Manager / Report Center**	• Includes the Application Virtualization Compatibility Dashboard report • Report Center's Application Readiness Dashboard includes an Application Virtualization Compatibility summary chart and App-V Best Practices and App-V Conflicts test results summary charts.
	Application Compatibility Pack	*Same as Professional, plus:*	

		Enhancements to **Application Manager / Test Center**	• Ability to test and fix multiple packages or groups of packages simultaneously
			• Ability to view package-level test details for **Operating System Compatibility** and **Browser Compatibility** tests for all packages in the Application Catalog, not just the last one tested
			• Import of web applications into the Application Catalog
			• Test web applications for compatibility with the following browsers:
			   • Internet Explorer 8
			   • Internet Explorer 9
			   • Internet Explorer 10
			   • Internet Explorer 11

		Enhancements to **Application Manager / Report Center**	• Display of Microsoft ACT database test results on the Report Center tab
		Enhancements to **Platform API**	• Ability to use the `Test-ASPackage` and `Resolve-ASPackage` Platform API commands to perform batch package testing and issue resolution.
	Mobile Pack	*Same as Professional*	

System Requirements

All of AdminStudio—Web sites, XML Web services, and database—can reside on a single machine; however, the configuration detailed in this section is recommended.

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

- Application Catalog Database Server

- AdminStudio Enterprise Server / Workflow Manager Server

- Software Repository

- Automated Application Converter Requirements

AdminStudio Client Tool Machine

The following table lists the recommended system configuration for a machine running the AdminStudio client tools.

Item	Description
Platform	32-bit or 64-bit processor at 2 GHz or greater *Note •* All of the AdminStudio client tools run on 64-bit Windows operating systems. To repackage 64-bit applications or create 64-bit App-V packages, install AdminStudio on a 64-bit Windows operating system.
RAM	4 GB
Hard Disk	4.0 GB
Display	Designed for XGA at 1024 x 768 resolution or higher

Item	Description
Operating Systems	• Windows 7
	• Windows 8 and Windows 8.1
	• Windows Server 2008 R2
	• Windows Server 2012 and Windows Server 2012 R2
	Note • Support for Windows Vista was removed due to a modification made by Microsoft. For more information, see the following articles: • *An ADO application does not run on down-level operating systems after you recompile it on a computer that is running Windows 7 SP 1 or Windows Server 2008 R2 SP 1 or that has KB983246 installed [Microsoft Article 2517589]* • *A Better Solution for the Windows 7 SP1 ADO GUID Changes*
Browser	Microsoft Internet Explorer 7.0 or later
Privileges	Administrative privileges on the system
Supported Distribution Systems	AdminStudio supports the following distribution systems: • System Center 2012 Configuration Manager R2 • System Center 2007 Configuration Manager • Symantec Altiris Client Management Suite 7.5 [Applications] • Altiris 6.5 Notification Server [Packages] • Citrix XenApp Server 6.5 • AirWatch Server 6.5

Application Catalog Database Server

The following table lists the recommended system configuration for a database server to store AdminStudio Application Catalog databases.

Item	Description
Platform	32-bit or 64-bit processor at 2 GHz or greater
RAM	4 GB or greater (8 GB preferred)
Hard Disk Space	80 GB or greater
Operating System	Windows Server 2008 R2 or later (Windows Server 2012 preferred)
Database Software	SQL Server 2008 R2 or later databases, including SQL Server 2012 (latest version preferred). • SQL Server must be installed with case-insensitive dictionary sort order and ISO-8859-1 character set. (Use *sp_helpsort* T-SQL command for more information.) • `SQL_Latin1_General_CP1_CI_AS` is the required collation setting for AdminStudio database server. It is the only supported collation. *Note • Before attempting to connect to an existing Microsoft SQL Server, open SQL Server Configuration Manager and make sure that the following three protocols are enabled:* • *Shared Memory* • *Named Pipes* • *TCP/IP*

AdminStudio Enterprise Server / Workflow Manager Server

The following table lists the system requirements for the Web server that hosts the Workflow Manager Data Web service and the actual Workflow Manager Web site and/or AdminStudio Enterprise Server:

Item	Description
Platform	32-bit or 64-bit processor at 2 GHz or greater *Note • AdminStudio Enterprise Server / Workflow Manager runs in 32-bit mode on a 64-bit OS.*
RAM	4 GB or greater (8 GB preferred)
Hard Disk Space	100 GB or greater
Operating System	Windows Server 2008 R2 or later / English base language (Windows Server 2012 preferred)
IIS	IIS 7.0 or later
.NET	.NET Framework 4.0
MSXML	MSXML 4.0

Software Repository

The following tables lists the recommended system configuration for the machine that stores the Software Repository files.

Item	Description
Processor	1 GHz or greater
RAM	2 GB or greater
Hard Disk Space	500 GB or greater
Operating System	Windows 8, Windows 7, Windows Vista, or Windows Server 2008 or later

Automated Application Converter Requirements

This section lists the requirements for the virtual machines used by Automated Application Converter to perform repackaging. Also, the software requirements for specific virtual technologies are listed.

- Virtual Machine Requirements

- Virtual Technology Requirements

Virtual Machine Requirements

Edition • *Automated Application Converter is included in the AdminStudio Application 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 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), the VMware VIX API needs to be 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 • When using VMware Workstation, it is recommended that you install VMware Workstation on the same machine as Automated Application Converter so that Automated Application Converter will use the version of the VIX API that was designed for that specific version of VMware Workstation. Although it is likely that newer versions of the VIX API will also work, it seems that the best approach is for Automated Application Converter to use the version of the VIX API that was bundled with your version of VMware Workstation.

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 following permissions to perform operations on the Hyper-V machines:

  - Permission to create/restore/delete VM snapshots

  - Permission to start and stop virtual machines

  - Permission to access console sessions

- **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

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 repackage. Since you repackage 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.

Virtual Technology Requirements

In order to convert to some virtual formats, there are some software requirements:

Virtual Format	Requirement
App-V 5.0	• **Conversion**—To convert a package to App-V 5.0 format using Automated Application Converter's **App-V 5.x with Sequencer** method, the Microsoft Application Virtualization 5.0 Sequencer must be installed on the virtual machine where the conversion will take place. • **Upgrade**—To upgrade an imported App-V 4.x package to App-V 5.0 format directly from Application Manager using the **App-V Upgrade Wizard**, the Microsoft Application Virtualization 5.0 Sequencer must be installed on the same machine as AdminStudio. • **Testing**—To test an App-V package using Automated Application Converter, the Microsoft Application Virtualization 5.0 Client must be installed on the same machine as AdminStudio.
VMware ThinApp	To convert a package to VMware ThinApp format, VMware ThinApp must be installed on the same machine as AdminStudio, and all license agreements must have been accepted.
Symantec Workspace	To convert a package to a Symantec Workspace virtual package, the Symantec Workspace Virtualization Agent must be installed on the same machine as AdminStudio.

Downloading AdminStudio Installers

If you have the AdminStudio DVD, all of the AdminStudio installers are on the DVD and you can find them using the DVD Browser.

However, if you do not have the AdminStudio DVD, you can download the installers for AdminStudio, AdminStudio Service Packs, Standalone Repackager, Standalone Quality Monitor, and the FlexNet Licensing Server from the **Flexera Software Product and License Center**:

https://flexerasoftware.flexnetoperations.com

For information on using the Flexera Software Product and License Center, see the **Download and License Overview for AdminStudio**:

http://www.flexerasoftware.com/downloads/instructions/productlicensing/en/adminstudio.htm

AdminStudio 2014 Evaluation Restrictions

When you run AdminStudio in trial/evaluation mode, all of the features in the AdminStudio Enterprise Edition client tools are fully available, with the following restrictions:

- **Can create only one Application Catalog**—You are permitted to create only one Application Catalog, and it must be named `AdminStudio Evaluation Catalog`.

- **Ten package import limit**—Only 10 total packages (of one or more deployment types) can be imported into the Application Catalog.

- **Package deletion not permitted**—After you import a package into the Application Catalog, you are not permitted to delete it.

- **AdminStudio Platform API support is disabled**—All platform support is disabled.

Resolved Issues

The following table lists the customer issues that were resolved in AdminStudio 2014:

Issue Number	Issue Summary
IOA-000066027	Associated Patches view in Application Manager does not show the associated patches.
IOA-000068807	In Automated Application Converter, MSI wrapper was not created for a ThinApp package even though that option had been chosen.
IOA-000072750	When opening an App-V package created with Microsoft Sequencer in Virtual Package Editor, error is returned: Error 80070570: The file or directory is corrupted or unreadable.
IOA-000073080	When attempting to upgrade an AdminStudio Application Catalog from version 11.5 SP1 to 11.5, an error occurs during the upgrade process and the upgrade is not completed.
IOA-000074375	If Workflow Manager/AdminStudio Enterprise Server 11.5 was installed prior to installing AdminStudio 11.5, a database error occurs.
IOA-000075405	Enhancement request to provide support for multiple System Center Configuration Manager environments.
IOA-000076514	Request to create a Get-ASProperty PowerShell command to retrieve values from within Application Manager.
IOA-000077137	If you change the name of a package in the Repackager Repackaged Output view and then build a Windows Installer with a virtual package, the virtual package is never created.
IOA-000077277	When trying to repackage an application that contains a very long path name (close to the maximum of 260 characters), repackaging fails.
IOA-000077411	After building an App-V virtual package, resulting App-V package fails to launch due to an incorrect WORKINGDIR value in the .OSD file.
IOA-000078004	Unable to convert Adobe Reader 10 to App-V virtual format.
IOA-000078052	`DateCreated` is not populated in the `wftlUserWorkFlows` table when workflow is created using AdminStudio.
IOA-000081823	Quality Monitor does not display an installed application if that application's Windows Installer package was created by repackaging an InstallScript setup.

Issue Number	Issue Summary
IOA-000082013	Unable to import App-V 4.x (.sft) packages from SCCM 2007. Generates log error of: Cannot find type with id = '6'.
IOA-000082309	If you repackage a legacy application (.exe) containing 32-bit shortcuts on a 64-bit machine, the shortcut targets point to the 64-bit "Program Files" directory instead of the "Program Files (x86)" directory.
IOA-000082897	SET ANSI_NULLS should be set to ON in all of AdminStudio's SQL scripts that are required to create/upgrade an Application Catalog.
IOA-000082950	The right click options for applications/packages differ when launching Application Manager from the Start Menu and connecting to an Enterprise Server Application Catalog as opposed to launching Application Manager from the AdminStudio Tools tab.
IOA-000083086	Unable to run Application Compatibility tests on an AMS Sagitta Windows Installer package with a transform file.
IOA-000083123	If bracket characters are used in directory paths, attempting to perform repackaging results in "An unknown error occurred" error.
IOA-000083242	Request to verify that Automated Application Converter supports VMware Workstation 10.0.
IOA-000084135	Automated Application Converter (AAC) does not work on Windows 2012 R2 or Windows 8.1.
IOA-000084245	If you have upgraded from AdminStudio 2013 to 2013 R2, uninstallation of AdminStudio 2013 R2 fails.
IOA-000084274	When distributing an application to SCCM, the application is not copied to the SCCM 'content location' folder.
IOA-000084420	When you import an .EXE from SCCM, the subfolders are not copied t othe Software Repository location.
IOA-000084519	If you attempt to distribute an application that does not have any detection methods available, an error is listed on the Distribution Summary panel of the Distribution Wizard, but there is no mention of the missing detection method. This error should point to the missing detection method.
IOA-000084534	Multiple Flexera Identifier fields are displayed for an application in an upgraded Application Catalog.
IOA-000084840	If you set up a detection method in Application Manager for a package, and then distribute the package to SCCM, the detection method does not get configured correctly in SCCM.

Issue Number	Issue Summary
IOA-000084853	Test Center incorrectly recognizes the System Environment Variable as the User Environment Variable.
IOA-000085144	If you use the Process Assistant to perform repackaging, an "Invalid Project File" error is generated.
IOA-000124391	A user with an AdminStudio Professional with Virtualization Pack license is unable to import more than 11 packages. Upon the import of the 12th package, an error is displayed: Task import could not be prepared for execution of request.
IOA-000124555	Import of OS Snapshot import fails if the system clock of the client machine is set to the format of yy/MM/dd.
IOA-000124573	When an App-V package is captured and created using the Microsoft App-V Sequencer, it will contain REG_BINARY keys. When this App-V package is then opened in Virtual Package Editor, the REG_BINARY keys are changed to REG_SZ keys and the data is lost.
IOA-000124631	When using the AdminStudio method to create an App-V 5 package, the App-V 5 connection group is not working as expected between repackaged applications. If one application uses another as dependency, the first application does not run.
IOA-000124673	Application Manager performance is slow when an AdminStudio client from the U.S. accesses the database in the U.K. or vice versa,
IOA-000124744	Running Repackager on Windows 8.1 32-bit causes the error: `Repackager has stopped working.`
IOA-000124763	Application Manager hangs when attempting to suppress Operating System Compatibility test results.
IOA-000124765	When using an upgraded database from AS 11.5 SP2 schema, Application Manager hangs when you attempt to change the test selections for Operating System Compatibility tests on the Select Tests to Execute dialog box. Eventually, a timeout error is returned.
IOA-000124767	The Destination Group panel of the Import Wizard does not display any subgroups under the root Applications group.
IOA-000124782	Using a custom template that has x64 set in the template summary information generates an error when you attempt to build the Repackager file to create a Windows Installer package.
IOA-000124884	Expanding the AdminStudio projects list on the Process Assistant tab from the U.S. is slow on a remote AdminStudio database hosted in the U.S.

Issue Number	Issue Summary
IOA-000124976	Request to provide an option to rename deployment types when distributing them to SCCM.
IOA-000124978	When using an Application Catalog database that was upgraded to AdminStudio 2013 2 SP1, the Import Wizard takes approximately 30 seconds to display the Destination Group panel.
IOA-000125014	The Repackaging Wizard command-line options in the user documentation are out of date.
IOA-000125032	Application Manager crashes when you click the Refresh button to reload the database.
IOA-000125117	Request for the addition of Internet Explorer 11 browser compatibility tests.
IOA-000125135	When attempting to deploy an App-V 5 application that was created by AdminStudio from SCCM, deployment fails.
IOA-000125279	App-V 5 application packages will appear to import correctly but will be missing the VersionID.
IOA-000125340	If the Adobe Reader 11 MSI or a repackaged version of that MSI is converted to an App-V 5 package, an error is generated when attempting to run that package: `Package manifest is invalid. Validation of elements in AppV namespace failed`.
IOA-000125342	New Application Catalog with ~1000 packages is very slow on startup.

Known Issues

For a complete list of known issues that pertain to the AdminStudio 2014 release, see the AdminStudio Support Knowledge Base article Q213527 at:

http://support.installshield.com/kb/view.asp?articleid=Q213527

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