

AdminStudio 2019 Release Notes

May 2019

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Introduction

AdminStudio is the starting point for any software's Operating System Compatibility Assessment, Risk Assessment, Deployments, Updates, New Releases, New Applications, and Windows 10 migrations. More than a packaging tool, AdminStudio arms your IT team with a complete application readiness solution, enabling you to identify and mitigate issues before pulling the deployment trigger. No more surprises.

With AdminStudio, you can:

- Improve service quality and streamline service delivery
- Decrease risk and embrace new technologies faster
- Eliminate mobile application security and compatibility concerns
- Reliably prepare and deploy application virtualization formats
- Integrate seamlessly with leading software deployment systems
- Simplify and unify application management with standardized processes
- Boost efficiency with a central application repository
- Identify application packaging issues in minutes instead of days

New Features in AdminStudio 2019

This section lists the new features that are included in AdminStudio 2019:

- Windows 10 Continuous Compatibility
- MSIX Automated Batch Conversion
- New Powershell Cmdlets

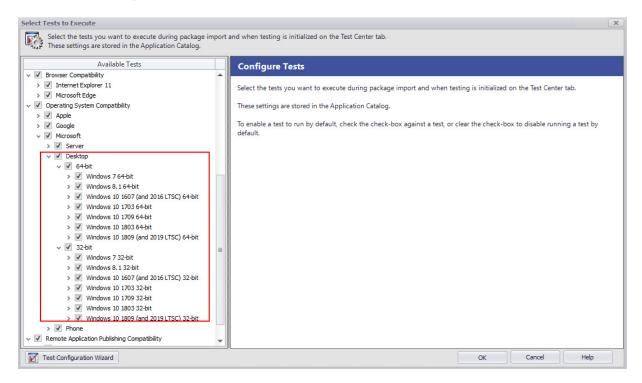
Windows 10 Continuous Compatibility

In AdminStudio 2019, application's compatibility against each specific version of Windows 10 can be tested.

- Test Selection Wizard
- Analyze Tab
- Reports Tab

Test Selection Wizard

In AdminStudio 2019, you can select one or more versions of Windows 10 in the Test selection wizard to test the operating system compatibility.



Analyze Tab

In AdminStudio 2019, you can view the operating system compatibility details for different versions of Windows 10 in the following places:

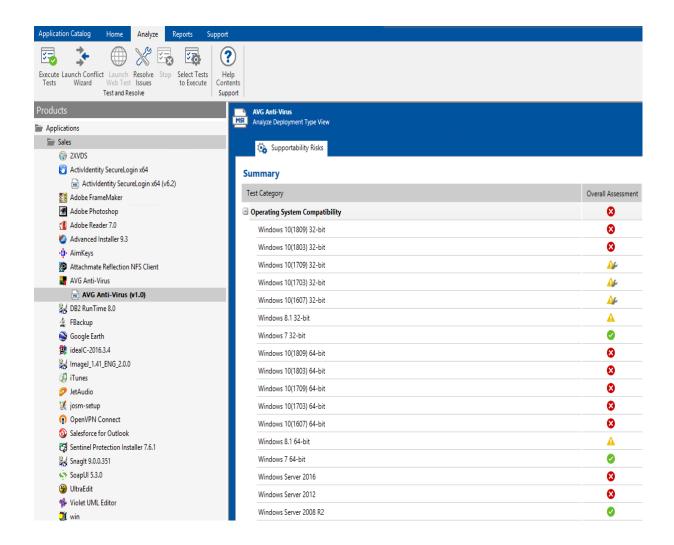
Chart View

In AdminStudio 2019, you can select different versions of Windows 10 in the operating system compatibility chart view.



Summary View

In AdminStudio 2019, you can view the package summary for different versions of Windows 10 in the operating system compatibility tab.



Reports Tab

In AdminStudio 2019, you can see the operating system compatibility for different versions of Windows 10 in the following reports:

Application Readiness Dashboard Report

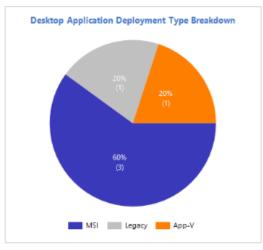
In AdminStudio 2019, you can see the operating system compatibility for different versions of Windows 10 in Application Readiness Dashboard report.

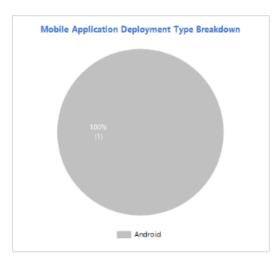
Application Readiness Dashboard

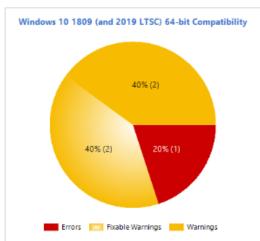
Catalog Name: April-2-2019
Applications: 6
Groups: 1

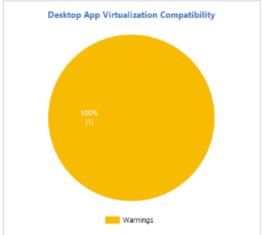
This report shows the deployment type breakdown of the applications in your Application Catalog as well as results of operating system and virtualization compatibility testing for desktop applications. It also shows the results of Windows Installer and App-V best practice testing.

Note: To open more detailed reports, click on categories in the charts below.









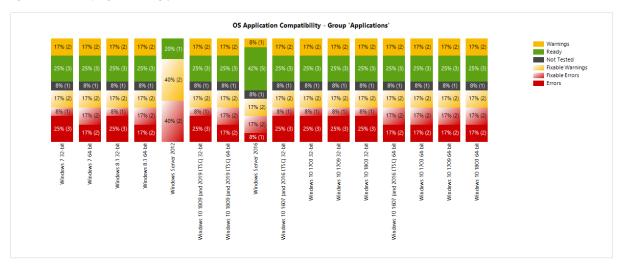
Operating System Compatibility Group Dashboard Report

In AdminStudio 2019, you can see the overall status of operating system application compatibility testing for group applications containing 5 packages in **Operating System Compatibility Group Dashboard** Report.

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Operating System Application Compatibility

This report shows the overall status of operating system application compatibility testing for group 'Applications' containing 5 packages . Each segment shows the number of packages in its status category.



Detailed Compatibility Results

In AdminStudio 2019, you can click on the **OS Application Compatibility - Group Application** chart to drill down to the detailed compatibility results.

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Windows 10 1607 (and 2016 LTSC) 64-bit Compatibility Results - Fixable Warnings Group 'Applications'

This report lists the packages for which automatically fixable warnings were found. It shows the warning count including how many of them are automatically fixable.

Package Name 💠	Product Version	Warnings	Fixable Warnings	Fixed Errors	Fixed Warnings
Orca	3.1.3790.0000	16	3	0	0
Network Provider Order setting to standard 1.0 MUL 1.0.0	1.0	4	3	0	0

Overall Package Testing Results Report

In AdminStudio 2019, you can see the overall test results for Windows installer packages for different versions of Windows 10 in **Overall Package Testing Results Report**.

Overall Test Results for Windows Installer Packages

In this report, an icon indicates the test status of each Windows Installer package in the Application Catalog for all Test Center test categories, including OS compatibility, application virtualization compatibility, Windows Installer best practices, and conflict testing. Click on a row to see historical information for a package.



Windows Desktop OS Compatibility Dashboard Report

In AdminStudio 2019, you can see the compatibility issues in pie chart format for different versions of Windows 10 in **Windows Desktop OS Compatibility Dashboard Report**.

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Operating System Application Compatibility

This report shows the overall status of operating system application compatibility testing for each operating system. Each slice shows the number of packages in a status category. To see a list of the packages in a specific status category, click on that slice.

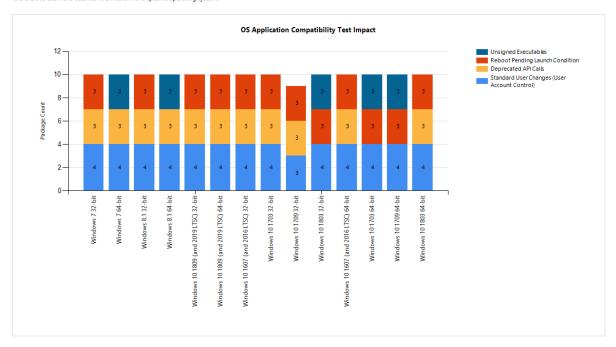


Test Impact Report

In AdminStudio 2019, you can see the reports of three OS compatibility tests for different versions of Windows 10 in **Operating System Compatibility by Test Impact Report**.

Operating System Compatibility By Test Impact

This report shows the top 3 OS compatibility tests that have detected issues in the most packages. Click on the chart to see more detailed information for a specific operating system.

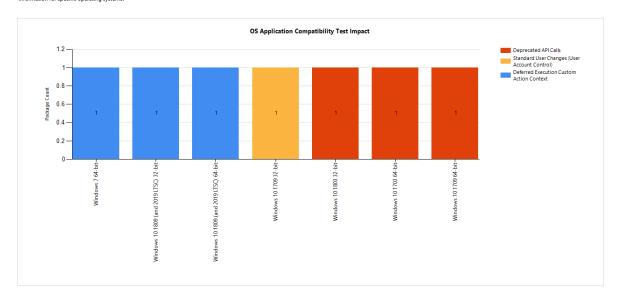


Test Suppression Report

In AdminStudio 2019, you can see the different versions of Windows 10 for three tests that have been suppressed in **Operating System Compatibility by Test Suppression Report**.

Operating System Compatibility Test Suppression Report

This report shows the top 3 tests that have been suppressed for the most packages. Click on the chart to see more detailed information for specific operating systems.

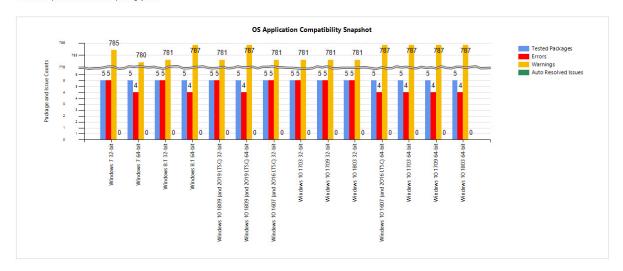


Snapshot Analysis Report

In AdminStudio 2019, you can see the compatibility testing error and warning for different versions of Windows 10 in **Operating System Compatibility Snapshot Analysis Report**.

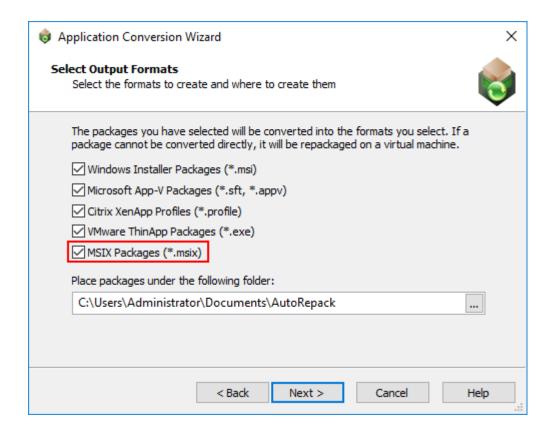
Operating System Application Compatibility Snapshot Analysis

This report shows the total operating system application compatibility testing error and warning status. Click on the chart to view historical snapshots for the selected operating system.



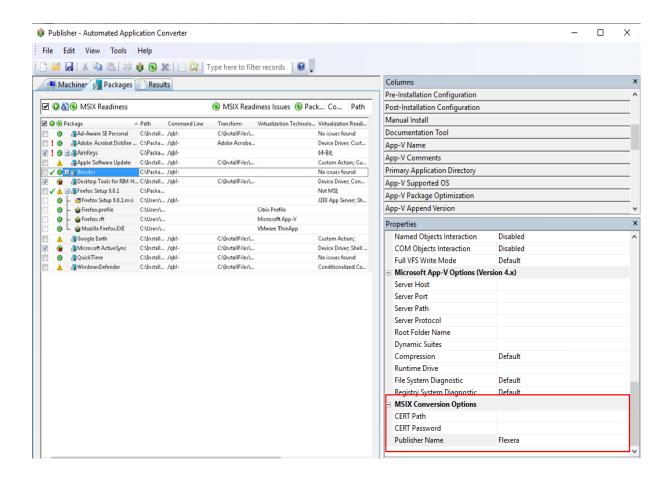
MSIX - Automated Batch Conversion

In AdminStudio 2019, you can now convert batch of MSI & EXE packages to MSIX using the Automated Application Converter tool.



Digital Signing of MSIX Package

In AdminStudio 2019, you can now digitally sign the MSIX package. To digitally sign the output MSIX package as part of conversion, specify Publisher Name, CERT Path and CERT Password in the Package Properties or **Tools >> Options**.



Testing MSIX Package in Remote Machine

Automated Application Converter tool uses the snap shot given in the **Snapshot Name**, In order to test the MSIX package in a remote machine, make sure the self signed certificate with the specified publisher name provided during conversion is installed in the remote machine.



Note • For more information on self signed certificate path with the specified publisher name, see Digital Signing of MSIX Package

New Powershell Cmdlets

The following powershell cmdlets are included in the AdminStudio 2019:

- New-ASCreateSoftwareTag Use to create a new Software Tag
- Set-ASSoftwareTagPropertes Use to set the Software Tag properties
- Invoke-ASSignPackage Invokes a signing process for the MSIX package

InstallShield 2019

For more information on InstallShield 2019 Release Notes, see the InstallShield 2019 Release Notes.

Editions

AdminStudio 2019 is available in Standard, Professional, and Enterprise Editions. The following table lists the tools and features available in each of AdminStudio's editions.

Edition	Feature Type	Tools	Functionality
STANDARD	General	Repackager	Repackage applications into Windows Installer format
			Perform basic ISO tagging, including creation of tag files
		Package Distribution Wizard	Prepare packages for distribution
		InstallShield 2019 (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		Convert a package to a virtual application in the following formats:
		(Single Application Version)	• Microsoft App-V (4.x and 5.1)
		Conversion Wizard (Single Application Version)	Citrix XenApp
		(e.i.g.e., ipprication releasely	• VMware ThinApp (4.x and 5.x)
			Convert one package at a time
		Virtual Package Editor	Edit App-V packages
		Microsoft App-V Assistant	Create a customized virtual package from an
		ThinApp Assistant	InstallShield project
		Citrix Assistant	

Edition	Feature Type	Tools	Functionality
PROFESSIONAL	Same as Standa	rd Edition, plus:	
Ger	General	Application Manager / Home Tab	Manage applications in an Application Manager database
		Manage a package's System Center Configuration Manager (2012 or Current Branch) and Symantec Altiris Client Management Suite deployment data	
			View an application's System Center Configuration Manager (2012 or Current Branch) deployment status
			Perform advanced ISO tag file creation, editing, and storage
	Application Manager /	Perform tests in the following categories:	
		Analyze Tab	 Windows Installer Internal Consistency Evaluators
			Windows Installer Best Practices
			Application Conflicts
			Test and fix one package at a time
		Distribution Wizard	Distribution Wizard
		OS Snapshot Wizard	Capture basic operating system configuration in an OS Snapshot, which can be imported into the Application Manager to check for potential OS conflicts
		QualityMonitor	Perform Windows Installer testing, including testing in a locked down environment
		Automated Application Converter	Automatically repackage a legacy package (.exe) into a Windows Installer package (.msi)
		(Single Application Version) Conversion Wizard	Repackage one package at a time
		(Single Application Version)	
		Test on Virtual Machine Wizard	Automatically launch a specified virtual machine and install a selected Windows Installer (.msi), App-V package (.appv), or installation executable (.exe) package for testing.

Edition	Feature Type	Tools	Functionality
PROFESSIONAL	Application	Enhancements to	Import virtual packages into Application Manager
(Continued)	Virtualization	on Application Manager / Home Tab	View virtual package data in Application Manager
	nome rab		Manage System Center Configuration Manager (2012 or Current Branch) deployment data for App-V 4.x and 5.1 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
			Manage App-V Server deployment data for App-V 4.x and 5.1 packages
		Enhancements to Application Manager /	Test packages for compatibility to be virtualized to App-V, ThinApp, and XenApp formats
		Analyze Tab	Test App-V packages for best practices
			Test App-V packages for conflicts with other packages
		Enhancements to Distribution Wizard	Publish applications containing App-V 4.x and 5.1 packages to Microsoft App-V Server
			Publish applications containing App-V packages to System Center Configuration Manager (2012 or Current Branch) and Citrix XenApp Server
			Publish applications containing Citrix XenApp profiles and App-V 4.x packages to Citrix XenApp Server
			Publish applications containing Symantec Workspace and VMware ThinApp packages to Symantec Altiris Client Management Suite Server

Edition	Feature Type	Tools	Functionality
PROFESSIONAL	Compatibility Application Manager /	Application Manager /	Test packages for compatibility with the following operating systems:
(Continued)			Windows 7 (32-bit and 64-bit)
			 Windows 8.1 (32-bit and 64-bit)
			 Windows 10 1607 (and 2016 LTSC) (32 bit and 64 bit)
			 Windows 10 1703 (32 bit and 64 bit)
			• Windows 10 1709 (32 bit and 64 bit)
			• Windows 10 1803 (32 bit and 64 bit)
			 Windows 10 1809 (and 2019 LTSC) (32 bit and 64 bit)
			Windows Server 2008 R2
			Windows Server 2012 and 2012 R2
			Windows Server 2016
			other packages in the Application Manager, 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 Analyze Deployment Type View
	Mobile App and macOS Support	Enhancements to Application Manager /	 Import of the following macOS desktop applications into the Application Manager:
		Home Tab	Apple installer package (.pkg file)
			Apple disk image (.dmg file)
			 Mac App Store app (public store link)
			 Import of the following mobile app formats into the Application Manager:
			 Apple iOS mobile apps (local and public store link)
			 Google Android mobile apps (local and public store link)
			 Microsoft Windows Store mobile apps (local and public store link)
			 Ability to import iOS Enterprise Policy Configuration files, view their settings, and determine the policy compatibility of iOS mobile apps.
AdminStudio 2019 Relea	se Notes (May 2019)		Ability to view iOS and Android mobile app The string on factors used device approach like it. The string on factors used device approach like it. The string of factors used device ap

and OS compatibility.

Edition	Feature Type	Tools	Functionality			
PROFESSIONAL (Continued)	PROFESSIONAL (Continued) Mobile App and macOS Support (Continued)	Enhancements to Application Manager /	 Ability to customize Apple Installer Package PKG installer settings 			
		(Continued)	 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 (local and public store link) 			
		 Ability to view and modify Casper deployment settings for macOS desktop applications 				
		Enhancements to	Test Apple iOS mobile apps for best practices			
		Application Manager / Analyze Tab	 Test Apple iOS, Microsoft Windows, and Google Android mobile apps for risk assessment 			
			 Test Apple iOS, Microsoft Windows, and Google Android mobile apps for operating system compatibility 			
			 Test macOS desktop applications (.pkg, .dmg, and Mac App Store apps) for operating system compatibility and best practices 			
				Enhancements to Distribution Wizard	Ability to publish applications containing the following mobile app formats to System Center Configuration Manager (2012 R2 or Current Branch) and AirWatch Server:	
			 Apple iOS mobile apps (local and public store link) 			
			 Google Android mobile apps (local and public store link) 			
						Ability to publish applications containing the following mobile app format to System Center Configuration Manager (2012 R2 or Current Branch):
				Windows Store (local and public store link)		
			 Microsoft UWP app packages (.appx) 			
			Ability to publish applications containing the following package formats to JAMF Casper Suite:			
			Apple installer package (.pkg file)			
			Apple disk image (.dmg file)			
			Mac App Store app (public store link)			

Edition	Feature Type	Tools	Functionality
ENTERPRISE	Same as Profess	ional Edition, plus:	
General	General	InstallShield 2019 (Premier Edition instead of Professional Edition)	Advanced customization of Windows Installer packages by either directly editing them or by creating transforms
		Application Manager / Reports Tab	Advanced reports including detailed summary and dashboard reports on Analyze 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
		Reports (Web Tool)	Generate reports on packages stored in the Application Manager, including reports using custom SQL queries
		Security Console (Web Tool)	Manage AdminStudio user accounts and directory services
			Manage AdminStudio roles and permissions
		Automated Application Converter (Multiple Application Version)	Automatically repackage legacy packages (.exe) into Windows Installer packages (.msi)
		Conversion Wizard (Multiple Application Version)	Ability to perform automated repackaging of multiple packages at a time
	Application Virtualization	Automated Application Converter (Multiple Application Version)	Ability to perform automated conversion of multiple packages at a time
		Conversion Wizard (Multiple Application Version)	
		Enhancements to Application Manager /	Includes the Application Virtualization Compatibility Dashboard report
		Reports	The Application Readiness Dashboard includes an Application Virtualization Compatibility summary chart and App-V Best Practices and App-V Conflicts test results summary charts.

Edition	Feature Type	Tools	Functionality
ENTERPRISE (Continued)	(Continued) Compatibility	Enhancements to Application Manager /	Ability to test and fix multiple packages or groups of packages simultaneously
Testing A	Analyze Tab	Ability to view package-level test details for Operating System Compatibility and Browser Compatibility tests for all packages in the Application Manager, not just the last one tested	
			Import of web applications and web deploy packages into the Application Manager
		Test web applications for compatibility with the following browsers:	
			Internet Explorer 11
			Microsoft Edge
			Test web deploy packages for compatibility with the following platforms:
			Windows Server 2012 R2
			Windows Server 2016
			Microsoft Azure Application Services
			Test web deploy packages for best practices.
			Test web deploy packages for browser compatibility.
	Ар	Enhancements to Application Manager / Reports	Display of Microsoft ACT database test results on the Reports 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.

System Requirements

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

- Compatibility Summary
- AdminStudio Machine
- Distribution Systems
- Application Catalog Database Server
- AdminStudio Enterprise Server / Workflow Manager Server
- Automated Application Converter

Compatibility Summary

AdminStudio 2019 supports the following versions of the listed software.

Category	Item	Supported Versions
Operating System for:	Microsoft Windows	• Windows 7
• AdminStudio		• Windows 8.1
• Standalone Repackager		 Windows 10 1607 (and 2016 LTSC) (32 bit and 64 bit)
Standalone Tuner		• Windows 10 1703 (32 bit and 64 bit)
		• Windows 10 1709 (32 bit and 64 bit)
		• Windows 10 1803 (32 bit and 64 bit)
		 Windows 10 1809 (and 2019 LTSC) (32 bit and 64 bit)
		Windows Server 2008 R2
		Windows Server 2012
		Windows Server 2012 R2
		Windows Server 2016
AdminStudio Web Server	Microsoft Windows	Windows Server 2008 R2
Operating System (AdminStudio Enterprise	Server	Windows Server 2012
Server, AdminStudio		Windows Server 2012 R2
Inventory and Rationalization, Workflow Manager)		Windows Server 2016

Category	Item	Supported Versions
Application Catalog Database	Microsoft SQL Server	 2008 R2 2012 2016 2017
Flexera Software Product Integration	FlexNet Manager Platform / FlexNet Manager Suite (On Premises)	9.2 SP1 or later
	FlexNet Manager Suite (Cloud)	2014 or later
	App Portal	7.5.3 or later
	Workflow Manager	2015 or later
	Flexera Service Gateway	1.0 or later
Virtual Machines for	VMware Workstation	6.5 or later
virtualization	VMware ESXi	VMware ESX/ESXi Server, Version 5.5 or later
	VMware vSphere	5.5
	Microsoft Hyper-V Server	2008 R2 or later
Virtual Formats	App-V	App-V 4.5 through 5.1
	VMware ThinApp	4.x and 5x
Microsoft App-V Sequencer	App-V Sequencer	5.1
Desktop Distribution (Applications)	System Center Configuration Manager	2007, 2012 R2, 2012 R2 SP1, Current Branch
	Microsoft App-V Server	5.1
	Symantec Altiris Client Management Suite	7.5
	Citrix XenApp Server	6.5

Category	Item	Supported Versions
Desktop Distribution (Packages)	Novell ZENworks Configuration Management	10 and 11
	LANDESK Management Suite	9
	System Center Configuration Manager	2007, 2012 R2, 2012 R2 SP1, Current Branch
	Altiris Notification Server	6.5
	Marimba NCP	4.7.2
Mobile Distribution	AirWatch Server	6.5
	Microsoft App-V Server	5.1
	Microsoft System Center Configuration Manager	2012 R2, 2012 R2 SP1
Desktop Operating Systems	Windows	• 7 (32-bit and 64-bit)
Supported for compatibility		• 8.1 (32-bit and 64-bit)
testing		• 10 1607 (and 2016 LTSC) (32 bit and 64 bit)
		• 10 1703 (32 bit and 64 bit)
		• 10 1709 (32 bit and 64 bit)
		• 10 1803 (32 bit and 64 bit)
		• 10 1809 (and 2019 LTSC) (32 bit and 64 bit)
	Windows Server	• 2008 R2
		• 2012
		• 2016
	Mac OS	• 10.11 (El Capitan)
		• 10.12 (Sierra)

Category	Item	Supported Versions	
Mobile Operating Systems Supported for compatibility	Apple iOS	6 (32-bit)7 (32-bit and 64-bit)	
testing		8 (32-bit and 64-bit) 8 (32-bit and 64-bit)	
		 9 (32-bit and 64-bit) 	
		• 10 (32-bit and 64-bit)	
	Google Android	• 4.1 Jelly Bean	
		• 4.2 Jelly Bean	
		• 4.3 Jelly Bean	
		• 4.4 KitKat	
		• 5.0 Lollipop	
		• 6.0 Marshmallow	
		• 7.0 Nougat	
	Windows Phone	• 8.1	
		• 10	
Internet Browsers Supported for browser	Microsoft Internet Explorer	11	
compatibility testing	Microsoft Edge	Current version	
Internet Browsers	Mozilla Firefox	Firefox for Windows 25.0 or later	
For viewing AdminStudio Enterprise Server, AdminStudio Inventory and Rationalization, and Workflow Manager	Google Chrome	Chrome for Windows 33.0 or later	
	Microsoft Internet Explorer	Microsoft Internet Explorer 9.0 or later	
	Microsoft Edge	Current version	
	Apple Safari	Safari for Mac OS X and iOS	

Category	Item	Supported Versions
Mobile Devices	Apple iOS Devices	iPad WiFiiPad 2 3G and iPad 2 WiFi
		 iPad Third Gen and iPad Third Gen 4G IPad Fourth Gen and iPad Fourth Gen 4G iPad Fifth Gen and iPad Fifth Gen 4G iPad Sixth Gen and iPad Sixth Gen LTE iPad Pro 9.7, 9.7 LTE iPad Pro 12.9, 12.9 LTE iPad Mini iPad Mini 3 and iPad Mini 3LTE iPad Mini 4G iPad Mini Retina and iPad Mini Retina 4G iPhone 4S iPhone 5, iPhone 5c, and iPhone 5s iPhone 6 and iPhone 6s Plus iPhone 6s and iPhone 6s Plus
	Google Android Devices	 iPhone SE Samsung Galaxy Grand 2 Google Nexus 5, 5X, 6, 6P, 9 Samsung Galaxy Note 2, 3, 4, 5, 6, 7 Samsung Galaxy Note Pro Samsung Galaxy S4, S5, S7 Samsung Galaxy Tab S2, 3
	Windows Phone Devices	 Microsoft Lumia535 Microsoft Lumia 930 Microsoft SurfacePro 3
API	PowerShell	4.x
Application Compatibility	Microsoft Application Compatibility Toolkit (ACT)	5.6

AdminStudio Machine

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

Item	Description	
Processor	32-bit or 64-bit processor at 2 GHz or greater	
	Note • All of the AdminStudio 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 GB of free space	
Display	Designed for XGA at 1024 x 768 resolution or higher	
	Note • For the best user experience, a monitor resolution of 1920 x 1080 or greater is recommended.	
MSXML	MSXML 6.0	
	Note • MSXML is installed by the AdminStudio installer.	
Operating Systems	• Windows 7	
	 Windows 8 and Windows 8.1 	
	Windows 10	
	 Windows Server 2008 R2 	
	• Windows Server 2012, Windows Server 2012 R2, Windows Server 2016	
	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	

Distribution Systems

AdminStudio supports distribution of both applications and packages.

Application Distribution

AdminStudio supports the following distribution systems for the distribution of applications.

Distribution System	Support Version(s)
System Center Configuration Manager	2007, 2012 R2, 2012 R2 SP1, Current Branch
Symantec Altiris Client Management Suite	7.5
JAMF Casper Suite Server	9.9
Citrix XenApp Server	6.5
AirWatch Server	6.5 [Mobile applications only]
Microsoft App-V Server	5.1
	Note • In order for you to distribute packages to a Microsoft App-V Server, the WinRM service must be running, and the App-V Server must be in the list of trusted hosts. Both of these can be accomplished from PowerShell by running the following command: set-item wsman:\localhost\Client\TrustedHosts -value <machine name=""></machine>

Package Distribution

AdminStudio supports the following distribution systems for the distribution of packages using the Legacy Distribution Wizard.

Distribution System	Supported Versions
Altiris Notification Server	Version 6.5
LANDESK Management Suite	Version 9
Novell ZENworks Configuration Management	Versions 10 and 11
Microsoft System Center Configuration Manager	2007, 2012 R2, 2012 R2 SP1, Current Branch

Application Catalog Database Server

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



Note • While minimum requirements are listed below, the recommended system configuration for a database server is dependent upon the number of users and the number of packages that will be imported into the Application Catalog database.

Item	Description
Processor	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 or later preferred)
Database Software	SQL Server 2008 R2 or later databases, including SQL Server 2012, SQL Server 2014, SQL Server 2016, and SQL Server 2017.
	 Dictionary sort order—SQL Server must be installed with case- insensitive dictionary sort order 52 on Code Page 1252 for non-Unicode data. For more information, use the sp_helpsort T-SQL command, which returns the following:
	Latin1-General, case-insensitive, accent-sensitive, kanatype- insensitive, width-insensitive for Unicode Data, SQL Server Sort Order 52 on Code Page 1252 for non-Unicode data
	 Collation setting—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 MemoryNamed PipesTCP/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.



Note • While minimum requirements are listed below, the recommended system configuration for this web server is dependent upon the number of users.

Item	Description	
Processor	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 or later preferred)	
IIS	IIS 7.0 or later	
.NET	.NET Framework 4.0	
MSXML	MSXML 6.0	
	Note • MSXML is installed by the AdminStudio Enterprise Server / Workflow Manager installer.	

Automated Application Converter

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 with AdminStudio Application Virtualization.

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 5.5 or later
- VMware Workstation 6.5 or later
- VMware vSphere 5.5
- 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 REST API Requirement
- VMware ESX/ESXi Server Permission Requirements
- vSphere 5.5 Account Requirements

VMware REST 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 REST APIs needs to be enabled on the same machine as the Automated Application Converter.



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 REST API that was designed for that specific version of VMware Workstation. Although it is likely that newer versions of the REST API will also work, it seems that the best approach is for Automated Application Converter to use the version of the REST 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 REST 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.

vSphere 5.5 Account Requirements

In order to make Automated Application Converter (AAC) work with VMware virtual machines residing under vSphere 5.5, there are certain minimum permissions required for the vSphere user account. To assign these permissions to a vSphere user account, perform the following steps:



Task To configure a vSphere 5.5 account to be used with Automated Application Converter:

1. In vSphere 5.5, open the **Assign Permissions** dialog box and assign a user the **Virtual machine power user (sample)** role, which consists of the following permissions:

Category	Permission	
Datastore	Browse datastore	
Global	Cancel task	
Scheduled task	Create task	Remove task
	 Modify task 	• Run task
Virtual machine > Configuration	Add existing disk	Modify device settings
	Add new disk	Remove disk
	Add or remove device	 Rename
	 Advanced 	Reset guest information
	Change CPU count	Settings
	Change resource	Upgrade virtual machine
	Disk lease	compatibility
	Memory	
Virtual machine > Interaction	Answer question	Power off
	Configure CD media	Power on
	Configure floppy media	• Reset
	Console interaction	Suspend
	Device connection	VMware Tools install
	 Guest operating system management by REST API 	
Virtual machine > Snapshot	Create snapshot	Rename snapshot
management	Remove snapshot	Revert to snapshot

2. Also give the user account read-only access to the rest of the 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 5.1	 Conversion—To convert a package to App-V 5.1 format using Automated Application Converter's App-V 5.x with Sequencer method, the Microsoft Application Virtualization 5.1 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 5.1 format directly from Application Manager using the App-V Upgrade Wizard, the Microsoft Application Virtualization 5.1 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 5.1 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.

Downloading AdminStudio Installers

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 2019 Evaluation Restrictions

When you run AdminStudio in trial/evaluation mode, all of the features in the AdminStudio Enterprise Edition 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

This section lists the customer issues that were resolved in the following versions of AdminStudio:

AdminStudio 2019

AdminStudio 2019

The following table lists the customer issues that were resolved in AdminStudio 2019.

Issue	Description
IOJ-1914963	After running all the selected tests successfully, 'overall Test Results for Windows Installer Packages report' displays no data when an MSI package is imported along with more than one mst.
IOJ-1914457	Execute- MSI command line missing '\' after \$dirFiles for transforms in Deploy- Application.ps1 under 'Perform Installation tasks here' section for MSI packages when wrapped to Ps1.
IOJ-1913460	Unable to Digitally Sign MSIX through Repackager as it throws an Warning "Warning: Either Pfx file or password is invalid,you may sign the package again after importing using context menu"
IOJ-1906270	Adminstudio 2018 R3 AAC crashing when attempting to use with vSphere
IOJ-1898125	More detailed messaging regarding permission checks on the database
IOJ-1896724	Make PowerShell Documentation more clear regarding licensing
IOJ-1892537	AAC Crash with Application Catalog using Software Repository
IOJ-1890197	Error when clicking on Select Tests to Execute

Issue	Description
IOJ-1873175	Add Package version column to Operating System Compatibility Reports
IOJ-1863970	Reimport of MSI generates Software ID tag with the enable creation of Software ID tags option disabled
IOJ-1851535	Importing from SCCM will always generate the Software ID tag even if option to create the tag is disabled
IOJ-1851327	Add-AppvClientPackage fails after opening and saving without editing with Virtual Package Editor
IOJ-1848188	AdminStudio Fails to Install under System Context
IOJ-1846065	Specific tests for each Windows 10 build
IOJ-1845456	Packages that are managed by the Software Repository cannot be wrapped with PowerShell
IOJ-1839026	Issues importing specific application – ABB Test Signal Viewer
IOJ-1829427	AAC Logs
IOJ-1805625	Installation Monitoring not capturing all files without an extension (Package specific)
IOJ-1641260	Repackager's command line option -app launches Repackager with path enclosed in double quotes

Known Issues

In AdminStudio 2019 release, the following known issues are identified:

- MSIX conversion using Remote Repackager
- MSIX conversion using Automated Application Converter

MSIX conversion using Remote Repackager

In AdminStudio 2019, when you convert .msi or .exe packages to MSIX package using Remote Repackager tool, you cannot sign the packages during the conversion process.

MSIX conversion using Automated Application Converter

In AdminStudio 2019, when you convert .msi or .exe packages to MSIX package using Automated Application Converter tool in a remote machine,

The MSIX conversion will not happen in the following condition:

• If you change MSIX readiness status from **Ready** to **Required Packaging**, when both the MSIX readiness and Virtualization readiness status are Ready.

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