flexera™

AdminStudio 2022 R2 Release Notes

November 2022

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 2022 R2

This section lists the new features that are included in AdminStudio 2022 R2:

- MSIX Editor Enhancements
- Host AdminStudio Catalog on Azure SQL
- Automate Package Feed Module Trial Packages
- Support for Microsoft ConfigMgr 2207
- InstallShield 2022 R1

MSIX Editor Enhancements

The following improvements have been added to the MSIX Editor.

- Support for New Additional Fixups
- Editing of Visual Assets
- Support for Non-EXE Applications
- Fixup Suggestions

Support for New Additional Fixups

In AdminStudio 2022 R2, you can apply the following new fixups to an application in an MSIX Package to resolve certain runtime failures.

- File Not Found Fixup

- Executable Arguments Fixup

- Registry Fixup

- Environment Variable Fixup
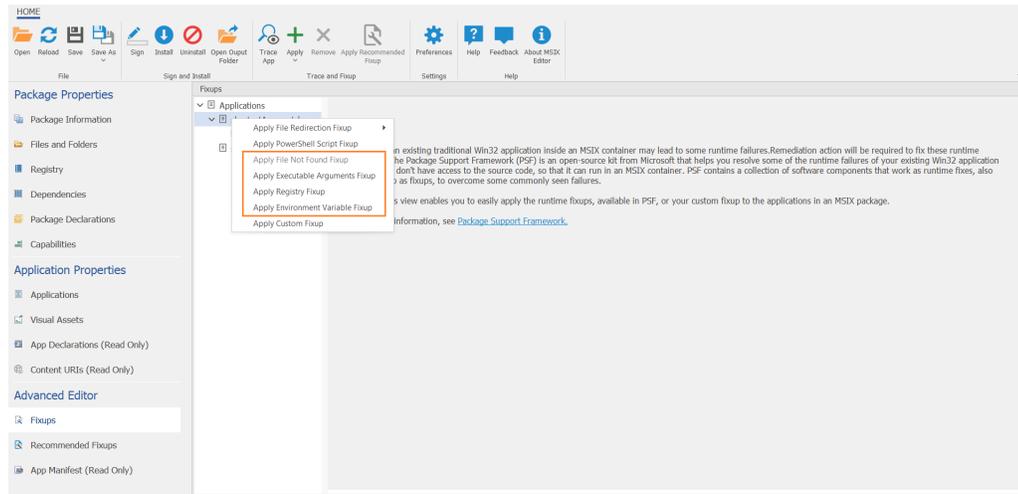
For more information, see Apply Fixups.

Editing of Visual Assets

The Visual Assets view in MSIX Editor is editable now. You can modify the existing visual assets of an MSIX package or generate a new set of visual assets.
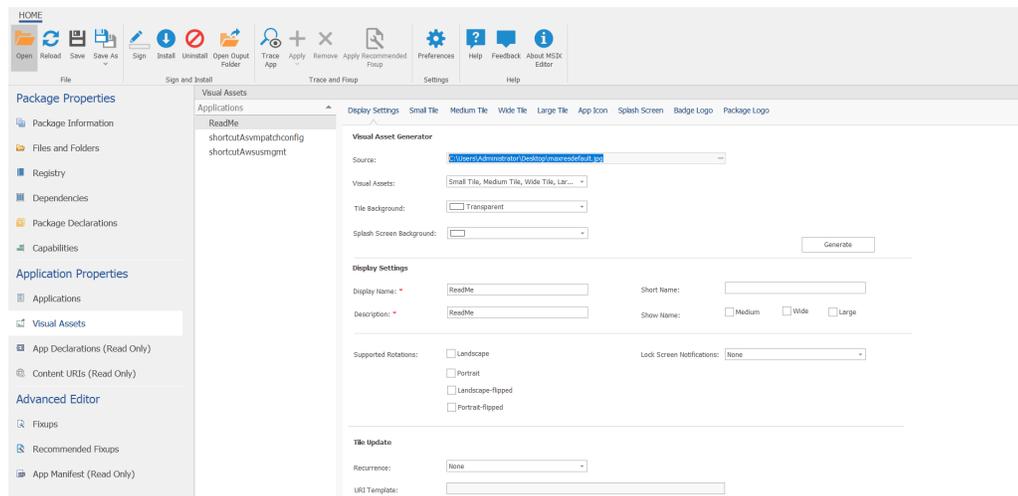
Support for Non-EXE Applications

You can create applications in an MSIX package pointing to a non-exe file. The following non-exe file format are supported to create an application: .bat, .cmd, .txt, .html and .docx.

To create a non-exe application, right-click on the **Applications** node and then select **Add Application (non-exe)** from the context menu.
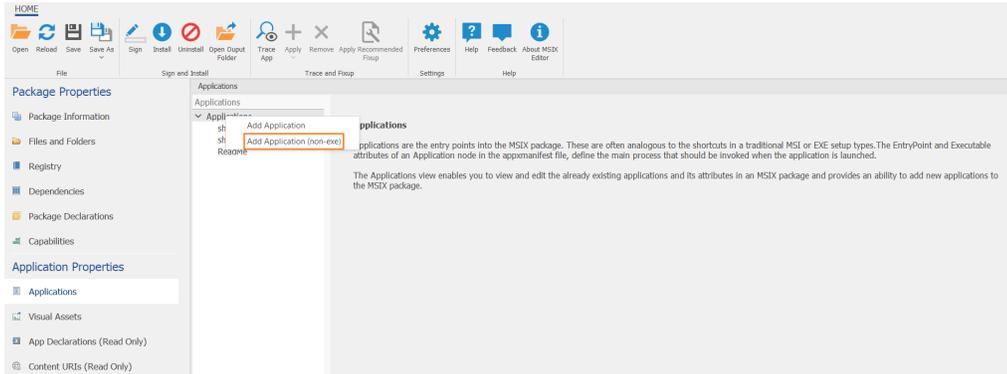
Fixup Suggestions

Tracing an MSIX package in the MSIX Editor, will now suggest fixups based on the runtime error encountered while tracing. The recommendation fixups will be displayed in the new **Recommended Fixups** view.

For more information, see Applying Recommended Fixup.

Host AdminStudio Catalog on Azure SQL

You can now create AdminStudio application catalog on Azure SQL. Select Azure SQL option in the Application Catalog Wizard and provide the required details to create a catalog on Azure SQL.
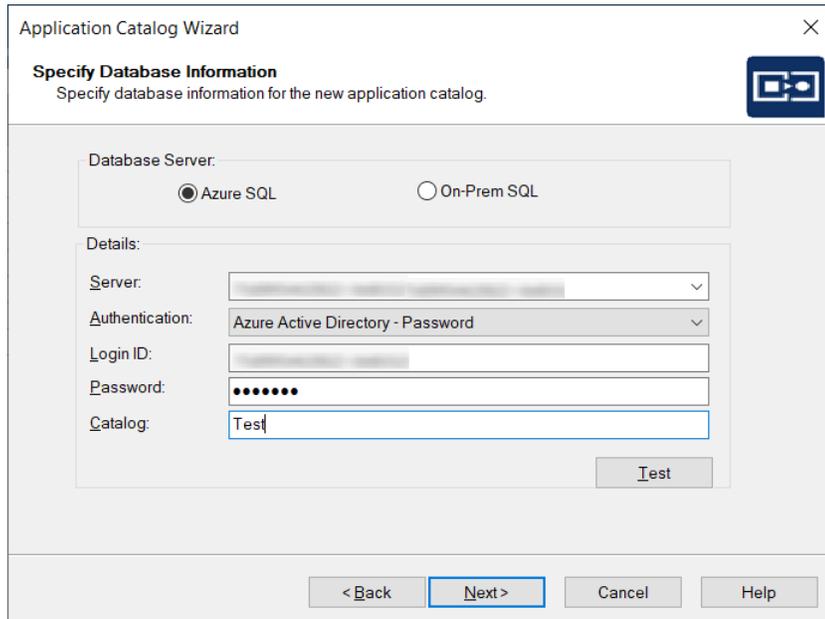
Automate Package Feed Module Trial Packages

The Package Feed Module trial packages are now added to the Backlog tab to enable automation. Subscribe the PFM trial packages for automation and configure actions and a schedule to automatically download and process packages when a new version is made available in the Package Feed Module.

For more information, see Automate Package Feed Module Trial Packages.

Support for Microsoft ConfigMgr 2207

In AdminStudio 2022 R2, you can distribute the following deployment types to Microsoft ConfigMgr 2207:

- Windows Installer (MSI)

- MSIX Package

- Legacy installer (EXE)

- PowerShell wrapped packages (PS1)

- App-V (4.x and 5.0)

- Apple iOS (binary file and public store)

- Google Android (binary file and public store)

InstallShield 2022 R1

AdminStudio 2022 R2 includes InstallShield 2022 R1, that has the following new features and enhancements:

- Support for Custom Declarations in MSIX

- Visual Studio 2022 Integration

- Minor Upgrade Support for Chained MSI

- Validation of MSI

For more information on these new features, see the InstallShield 2022 R1 Release Notes.

Editions

AdminStudio 2022 R2 is available in Professional and Enterprise Editions. The following table lists the tools and features available in each of AdminStudio's editions.

Edition	Feature Type	Tools	Functionality
PROFESSIONAL	**General**	**Application Manager / Home Tab**	• Manage applications in an Application Manager database. • Manage a package's ConfigMgr (Formerly Called as Software Center Configuration Manager) (2012 or ConfigMgr 2002) and Symantec Altiris Client Management Suite deployment data. • View an application's ConfigMgr (Formerly Called as Software Center Configuration Manager) (2012 or ConfigMgr 2002) deployment status. • Perform advanced ISO tag file creation, editing, and storage. • **Package Automation with Package Feed Module**—You can use the Package Feed Module option of the Import Wizard to subscribe to up to 10 applications for bulk execution.
		Application Manager / Analyze 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
		Distribution Wizard	Publish applications to ConfigMgr (Formerly Called as Software Center Configuration Manager) (2012 or ConfigMgr 2002) and Symantec Altiris Management Server.
		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

Edition	Feature Type	Tools	Functionality
PROFESSIONAL (Continued)	**General** (Continued)	**Automated Application Converter** (Single Application Version) **Conversion Wizard** (Single Application Version)	Automatically repackage a legacy package (.exe) into a Windows Installer package (.msi) Repackage one package at a time
		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.
		Repackager	Repackage applications into Windows Installer format Perform basic ISO tagging, including creation of tag files
		Packager Distribution Wizard	Prepare packages for distribution
		InstallShield 2022 R1 **(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	Enhancements to **Application Manager / Home Tab**	Import virtual packages into Application Manager View virtual package data in Application Manager Manage ConfigMgr (Formerly Called as Software Center Configuration Manager) (2012 or ConfigMgr 2002) 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

Edition	Feature Type	Tools	Functionality
PROFESSIONAL (Continued)	Application Virtualization (Continued)	Enhancements to **Application Manager / Analyze Tab**	Test packages for compatibility to be virtualized to App-V, ThinApp, and XenApp formats
			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 ConfigMgr (Formerly Called as Software Center Configuration Manager) (2012 or ConfigMgr 2002) 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
		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 5.1) ● Citrix XenApp ● VMware ThinApp (4.x and 5.x) Convert one package at a time
		Virtual Package Editor	Edit App-V packages
		MSIX Editor	Edit MSIX packages
		Microsoft App-V Assistant **ThinApp Assistant** **Citrix Assistant**	Create a customized virtual package from an InstallShield project

Edition	Feature Type	Tools	Functionality
PROFESSIONAL (Continued)	**Application Compatibility Testing**	Enhancements to **Application Manager / Analyze Tab**	Test packages for compatibility with the following operating systems: ● Windows 8.1 (32-bit and 64-bit) ● Windows 10 1909 (32 bit and 64 bit) ● Windows 10 1809 (and 2019 LTSC) (32 bit and 64 bit) ● Windows 10 2004 (32 bit and 64 bit) ● Windows 10 20H2 (32 bit and 64 bit) ● Windows 10 21H1 (32 bit and 64 bit) ● Windows 10 21H2 (32 bit and 64 bit) ● Windows 11 (64 bit) ● Windows Server 2008 R2 ● Windows Server 2012 and 2012 R2 ● Windows Server 2016 ● Windows Server 2019 On the **Operating System Compatibility** tab of the Analyze **Deployment Type View**, you can see detailed data for only the last package tested; for all 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 / Home Tab**	● Import of the following macOS desktop applications into the Application Manager: ● 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)

Edition	Feature Type	Tools	Functionality
PROFESSIONAL (Continued)	**Mobile App and macOS Support** (Continued)	Enhancements to **Application Manager / Home Tab** (Continued)	• 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 customize Apple Installer Package PKG installer settings • 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 **Application Manager / Analyze Tab**	• Test Apple iOS mobile apps for best practices • 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

Edition	Feature Type	Tools	Functionality
PROFESSIONAL (Continued)	**Mobile App and macOS Support** (Continued)	Enhancements to **Distribution Wizard**	Ability to publish applications containing the following mobile app formats to ConfigMgr (Formerly Called as Software Center Configuration Manager) (2012 R2 or ConfigMgr 2002) 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 ConfigMgr (Formerly Called as Software Center Configuration Manager) (2012 R2 or ConfigMgr 2002): • 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: • Mac App Store app (public store link) • Apple installer package (.pkg file) • Apple disk image (.dmg file)

Edition	Feature Type	Tools	Functionality
ENTERPRISE	Same as **Professional Edition**, plus:		
	General	**InstallShield 2022 R1** (Premier Edition instead of Professional Edition)	Advanced customization of Windows Installer packages by either directly editing them or by creating transforms
		Enhancements to **Application Catalog** / **Home** Tab	**Package Automation with Package Feed Module**—You can use the Package Feed Module option of the Import Wizard to subscribe to an unlimited number of applications for bulk execution.
		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) **Conversion Wizard** (Multiple Application Version)	Automatically repackage legacy packages (.exe) into Windows Installer packages (.msi) Ability to perform automated repackaging of multiple packages at a time
	Application Virtualization	**Automated Application Converter** (Multiple Application Version) **Conversion Wizard** (Multiple Application Version)	Ability to perform automated conversion of multiple packages at a time

Edition	Feature Type	Tools	Functionality
ENTERPRISE (Continued)	**Application Virtualization** (Continued)	Enhancements to **Application Manager / Reports**	Includes the Application Virtualization Compatibility Dashboard report The 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 Testing	Enhancements to **Application Manager / Analyze Tab**	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 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 • Windows Server 2019 • Microsoft Azure Application Services Test web deploy packages for best practices. Test web deploy packages for browser compatibility.
		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 2022 R2 supports the following versions of the listed software.

Category	Item	Supported Versions
Operating System for: - **AdminStudio** - **Standalone Repackager** - **Standalone Tuner**	**Microsoft Windows**	- Windows 10 20H2 (32 bit and 64 bit) - Windows 10 21H1 (32 bit and 64 bit) - Windows 10 21H2 (32 bit and 64 bit) - Windows 11 21H2 (64 bit) - Windows Server 2012 - Windows Server 2012 R2 - Windows Server 2016 - Windows Server 2019
AdminStudio Web Server Operating System (AdminStudio Enterprise Server, AdminStudio Inventory and Rationalization, Workflow Manager)	**Microsoft Windows Server**	- Windows Server 2008 R2 - Windows Server 2012 - Windows Server 2012 R2 - Windows Server 2016 - Windows Server 2019
Application Catalog Database	**Microsoft SQL Server**	- 2008 R2 - 2012 - 2016 - 2017 - 2019

Category	Item	Supported Versions
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 Virtualization	**VMware Workstation**	6.5 or later
	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)	**ConfigMgr (Formerly Called as Software Center Configuration Manager)**	2007, 2012 R2, 2012 R2 SP1, ConfigMgr 2002, ConfigMgr 2006, ConfigMgr 2010, ConfigMgr 2103, ConfigMgr 2107, ConfigMgr 2111, ConfigMgr 2203, and ConfigMgr 2207.
	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
	ConfigMgr (Formerly Called as Software Center Configuration Manager)	2007, 2012 R2, 2012 R2 SP1, ConfigMgr 2002, ConfigMgr 2006, ConfigMgr 2010, ConfigMgr 2103, ConfigMgr 2107, ConfigMgr 2111, ConfigMgr 2203, and ConfigMgr 2207.
	Altiris Notification Server	6.5
	Marimba NCP	4.7.2
Mobile Distribution	**AirWatch Server**	6.5
	Microsoft App-V Server	5.1
	ConfigMgr (Formerly Called as Software Center Configuration Manager)	2012 R2, 2012 R2 SP1, ConfigMgr 2002, ConfigMgr 2006, ConfigMgr 2010, ConfigMgr 2103, ConfigMgr 2107, ConfigMgr 2111, ConfigMgr 2203, and ConfigMgr 2207
Desktop Operating Systems Supported for compatibility testing	**Windows**	8.1 (32-bit and 64-bit) 10 1809 (and 2019 LTSC) (32 bit and 64 bit) 10 1909 (32 bit and 64 bit) 10 2004 (32 bit and 64 bit) 10 20H2 (32 bit and 64 bit) 10 21H1 (32 bit and 64 bit) 10 21H2 (32 bit and 64 bit) 11 21H2 (64 bit)
	Windows Server	2012 2016 2019
	Mac OS	10.11 (El Capitan) 10.12 (Sierra)

Category	Item	Supported Versions
Mobile Operating Systems Supported for compatibility testing	**Apple iOS**	• 6 (32-bit) • 7 (32-bit and 64-bit) • 8 (32-bit and 64-bit) • 9 (32-bit and 64-bit) • 10 (32-bit and 64-bit) • 11 (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 For viewing AdminStudio Enterprise Server, AdminStudio Inventory and Rationalization, and Workflow Manager	**Mozilla Firefox**	Firefox for Windows 25.0 or later
	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 WiFi
		• iPad 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 4 and 4LTE
		• iPad Mini Retina and iPad Mini Retina 4G
		• iPhone 4S
		• iPhone 5, iPhone 5c, and iPhone 5s
		• iPhone 6 and iPhone 6 Plus
		• iPhone 6s and iPhone 6s Plus
		• iPhone SE
	Google Android Devices	• 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
	REST API	
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. It should be minimum of dual core processor.*
RAM	8 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 8.1 • Windows 10 • Windows 11 • Windows Server 2012, Windows Server 2012 R2, Windows Server 2016 • Windows Server 2019 • Windows Server 2022 *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

Item	Description
Privileges	Administrative privileges on the system
Whitelist URL	The following URL is used to download packages from the package feed. `https://dl.csi7.secunia.com`

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)
ConfigMgr (Formerly Called as Software Center Configuration Manager)	2007, 2012 R2, 2012 R2 SP1, ConfigMgr 2010, 2103, 2107, 2111, and 2203, 2207
Symantec Altiris Client Management Suite	7.5
JAMF Casper Suite Server	9.9
Citrix XenApp Server	6.5
VMware Workspace ONE Server	6.5

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>`

Microsoft Intune Server	2108

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 📄 **Note •** *MSI format only.*
LANDESK Management Suite	Version 9 📄 **Note •** *MSI format only.*
ConfigMgr (Formerly Called as Software Center Configuration Manager)	2007, 2012 R2, 2012 R2 SP1, 2010, 2103, 2107, 2111, 2203, 2207

Application Catalog Database Server

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

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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)

Item	Description
Database Software	SQL Server 2008 R2 or later databases, including SQL Server 2012, SQL Server 2014, SQL Server 2016, SQL Server 2017, and SQL Server 2019.
	• **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 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.

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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

Item	Description
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 compatibility	
	● Disk lease		
	● 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 management	● Create snapshot	● Rename snapshot	
	● 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 Licensing Instructions for AdminStudio**:

https://docs.flexera.com/plc/en/adminstudio.htm

AdminStudio 2022 R2 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

The following table lists the customer issues that were resolved in AdminStudio 2022 R2:

Issue	Description
IOJ-2224940	Out of memory warning message is inconsistently seen while taking a snapshot in the OS Snapshot Wizard.

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