

InstallShield 2022 Release Notes

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Introduction

InstallShield is the industry standard for authoring high quality Windows Installer, InstallScript-based installations, MSIX package and Microsoft App-V packages.

InstallShield 2022 also offers new features, enhancements, and resolved issues that make it easy to use the latest technologies.

Changes in R2

InstallShield 2022 R2 includes the following changes:

- [Visual Studio 2022 Integration in InstallShield 2022 R2](#)

Visual Studio 2022 Integration in InstallShield 2022 R2

InstallShield 2022 R2 supports creating, editing, upgrading, and building projects in Visual Studio 2022.

The following is a summary of Visual Studio 2022 integration with InstallShield 2022 R2:

- Support for creating new InstallShield projects in Visual Studio 2022.
- Support for editing InstallShield projects in Visual Studio 2022.
- Support for upgrading projects to the latest version of InstallShield.
- Support for building projects from the Visual Studio 2022 IDE and from the x64 MSBuild.



Note - Support for InstallScript projects from Visual Studio 2022 is planned in future releases of InstallShield.

New Features in 2022 R1

InstallShield 2022 R1 includes the following new features:

- [Support for Custom Declarations in MSIX](#)
- [Visual Studio 2022 Integration in InstallShield 2021 R1](#)

Support for Custom Declarations in MSIX

Support for custom declarations has been added in MSIX project.

By default, the Declarations view in MSIX project supports many built-in application and package extension types. In addition to this, a Custom Declaration feature further helps to define the MSIX extensions that are not provided out of the box in InstallShield. The Custom Declaration menu provides

the options to define the required extension type by specifying its namespace and the content. InstallShield build process considers these customizations while preparing the MSIX manifest file. For more information and examples, refer to InstallShield product documentation.

Visual Studio 2022 Integration in InstallShield 2021 R1

InstallShield now supports integration with Visual Studio 2022. This integration is planned in phases. InstallShield 2022 R1 supports opening, upgrading, and building projects in Visual Studio 2022.

The following is a summary of Visual Studio 2022 Integration with InstallShield 2022 R1:

- Support for opening existing projects in Visual Studio 2022.
- Support for upgrading projects to the latest version of InstallShield.
- Support for building projects from the Visual Studio 2022 IDE and from the x64 MSBuild.



Note - Visual Studio 2022 is now being released as a 64-bit application as opposed to 32-bit in previous releases—hence, the phased delivery of the integration.



Note - Support for InstallScript projects and ability to create new InstallShield projects from Visual Studio 2022 is planned in future releases of InstallShield.

Enhancements

The InstallShield 2022 releases include the following enhancements:

- [InstallShield 2022 R2](#)
- [InstallShield 2022 R1](#)

InstallShield 2022 R2

The InstallShield 2022 R2 release includes the following enhancements:

- [Ability to Specify Additional Parameters on the Windows Package Manager Tab of the Prerequisite Editor](#)
- [New ARM and ARM64 Options Added to the Prerequisite Condition Dialog Box](#)
- [New /update Setup.exe Command-Line Parameter](#)
- [New Setting on Build Tab to Support Passive Installation](#)

Ability to Specify Additional Parameters on the Windows Package Manager Tab of the Prerequisite Editor

On the **Windows Package Manager** tab of the **InstallShield Prerequisite Editor**, where you specify the Windows Package Manager (WPM) package you want to install as a prerequisite to your product, InstallShield 2022 R2 introduces a new feature named **Additional Parameters**.

This new feature lets you to specify any additional parameter which you want to pass while installing the package from the **Windows Package Manager**. This new feature helps you to accept any required confirmation during installation of a package and makes the installation successful.



Note - This change was tracked in issue [IOK-708108](#)

New ARM and ARM64 Options Added to the Prerequisite Condition Dialog Box

On the **Prerequisite Condition** dialog box, when you select the **Set up is running on a specified platform** condition type, and you select the **Custom** option for the platform, InstallShield 2022 R2 introduces the following two new filter options under **Process Architecture**:

- **ARM**
- **ARM64**



Note - This change was tracked in issue [IOK-753424](#).

New /update Setup.exe Command-Line Parameter

The Setup.exe setup launcher for Advanced UI and Suite/Advanced UI installations can accept a number of command-line parameters. In InstallShield 2022 R2, there is a new /update command-line parameter which can be used when performing an update of a Suite/Advanced UI installation in silent mode.

To install updates (if available) with no UI interaction and without displaying a progress bar, use:

```
setup.exe /silent /update
```



Note - This change was tracked in issue [IOJ-2210989](#).

New Setting on Build Tab to Support Passive Installation

In InstallShield 2022 R2, there is a new setting on the **Setup.exe** tab of the **Releases** view named **Install using Minimum UI** which you can use to make the installation of a Suite/Advanced installer runs in a passive mode. Passive mode refers to installing with minimal user interface.

- When this setting is set to **Yes**, the installation of a Suite/Advanced installer runs in a passive mode.
- If this setting is set to **No**, the installation of a Suite/Advanced installer runs in a normal mode. By default, this setting is set to **No**.



Note - This change was tracked in issue IOJ-2211314.

InstallShield 2022 R1

The InstallShield 2022 R1 release includes the following enhancements:

- [Minor Upgrade Support for Chained MSI](#)
- [Validation of MSI](#)

Minor Upgrade Support for Chained MSI

Basic MSI project now supports minor upgrade for chained MSI packages during the installation, if the lower version of the chained .msi package is already installed on the target machine either with the previous version of the main installation or pre-exist on the target machine.



Note - This change was tracked in issue IOJ-1598900.

Validation of MSI

Added an option in settings.xml as given below to enforce the digital signature validation for MSI to ensure the integrity of the installer.

```
<DigitalSignature ValidateSetupAndMSISignatures="no"/>
```

If this option is enabled, the Setup.exe bootstrapper code allows the MSI installation only if MSI digital signature matches with the Setup.exe.



Note - This change was tracked in issue IOJ-2224914.

Important Information

Note the following important information regarding the InstallShield 2022 release:

- [Evaluating InstallShield](#)
- [Obtaining the Installations for InstallShield, InstallShield Add-Ons, and the Redistributable Files](#)
- [Installing More than One Edition of InstallShield](#)
- [Installing More than One Version of InstallShield](#)

Concurrent License Users Must Update the FlexNet Licensing Server Software

If you are using a concurrent license of InstallShield, you must update the version of the FlexNet Licensing Server software on the licensing server before you can start using InstallShield 2022.

The version of the FlexNet Licensing Server software that shipped with previous versions of InstallShield cannot manage licenses of InstallShield 2022. InstallShield 2022 will not check out licenses from older version of the license server even when those licenses are available.



Note • The new version of the FlexNet Licensing Server software can manage licenses of both InstallShield 2022 and previous releases of InstallShield.

You can download the installer for the new FlexNet Licensing Server software from the [Revenera Product and License Center](#).

For instructions on installing the FlexNet Licensing Server software, see [Setting Up Your License Server for Concurrent Licenses](#).

Evaluating InstallShield

If you have not purchased a license for InstallShield, you can install it and use it for a limited number of days without activating it or connecting it to a license server. When you use InstallShield before activating it or connecting it to a license server, it operates in evaluation mode, and some of its functionality is not available. For details, see [Functionality Notes for the Evaluation Version of InstallShield](#). Note that the evaluation limitations are removed when you activate InstallShield or when you connect it to a license server and check out a license for it.



Note • Starting InstallShield 2021, Professional Edition is renamed to “InstallShield” and Premier Edition continues to be referred to as “InstallShield Premier”.

Obtaining the Installations for InstallShield, InstallShield Add-Ons, and the Redistributable Files

The following installations are available for download from the Revenera Product and License Center as documented in the [InstallShield download and licensing instructions](#):

- InstallShield
- Redistributable files (for example, InstallShield prerequisites and InstallScript objects)
- Add-ons (if you are entitled to them) such as the Standalone Build and the InstallShield MSI Tools
- FlexNet Licensing Server software (if you purchased concurrent licenses and you need to set up your organization's license server)
- Skin Customization Kit

- InstallScript Object templates
- InstallShield service packs (if available)



Note - As of InstallShield 2021, the Collaboration Edition (DIM Editor) is no longer available.

Installing More than One Edition of InstallShield

Only one edition of InstallShield 2022—InstallShield Premier or InstallShield—can be installed on a system at a time.

Microsoft Visual Studio can be integrated with only one version of InstallShield at a time. The last version of InstallShield that is installed or repaired on a system is the one that is used for Visual Studio integration.

Installing More than One Version of InstallShield

InstallShield 2022 can coexist on the same machine with other versions of InstallShield.

The InstallShield 2022 Standalone Build can coexist on the same machine with other versions of the Standalone Build. In most cases, the Standalone Build is not installed on the same machine where InstallShield is installed. If you do install both on the same machine and you want to use the automation interface, review the *Installing the Standalone Build and InstallShield on the Same Machine* topic in the InstallShield Help Library to learn about special registration and uninstallation considerations.

Project Upgrade Alerts

The following information describes possible upgrade issues that may occur when you upgrade projects that were created with InstallShield 2016 and earlier to InstallShield 2022. It also alerts you to possible changes in behavior that you may notice between new InstallShield 2022 projects and projects that are upgraded from InstallShield 2016 or earlier to InstallShield 2022.

- [General Information about Upgrading Projects that Were Created in Earlier Versions of InstallShield](#)
- [Changes to the List of Supported Versions of Windows for Target Systems](#)
- [Localized String Considerations](#)

General Information about Upgrading Projects that Were Created in Earlier Versions of InstallShield

InstallShield creates a backup copy of the project with a file extension such as .777 (for an .ism project) or .2016 (for an .issuite project) before converting it. Delete the .777 or .2016 part from the original project's file name if you want to reopen the project in the earlier version of InstallShield. Note that you cannot open InstallShield 2022 projects in earlier versions of InstallShield.

You can upgrade projects that were created with the following versions of InstallShield to InstallShield 2022: InstallShield 2016 and earlier, InstallShield 12 and earlier, InstallShield DevStudio, InstallShield Professional 7 and earlier, and InstallShield Developer 8 and earlier. Note that projects that were created with InstallShield MultiPlatform or InstallShield Universal cannot be upgraded to InstallShield 2022.

Changes to the List of Supported Versions of Windows for Target Systems

For all project types except for Suites, Windows XP SP3 and Windows Server 2003 SP2 are the minimum versions of Windows that are required for target systems that run the installations that are created in InstallShield. For suites (Advanced UI, and Suite/Advanced UI project types), Windows Vista and Windows Server 2008 are the minimum versions of Windows that are required for target systems.

Localized String Considerations

Changes to the handling and detection of localized strings were introduced starting in InstallShield 2016. For example, localized string content that includes square brackets around invalid characters can now trigger a build time warning or error. Accordingly, the following new warning and errors might occur when you are working with your installation.

Error or Warning Number	Message	Troubleshooting Information
-7355	The %4 value for string %2 does not meet validation criteria for table %1 column %3.	This warning occurs if a localized string value does not meet validation criteria for a column in the String Editor table. To resolve this warning, update the flagged value in the String Editor.
-7354	The %4 value for string %2 does not contain a legitimate value for table %1 column %3.	This error occurs if a localized string value does not contain a legitimate value in the named column of the String Editor table. To resolve this error, update the flagged value in the String Editor.

Resolved Issues

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

- [InstallShield 2022 R2](#)
- [InstallShield 2022 R1](#)

InstallShield 2022 R2

The following issues have been resolved in InstallShield 2022 R2.

Issue Number	Issue Summary
IOK-932064	When user cancels the installation during staging, then the Suite installer displays an Operation aborted error message box per staged MSI. This issue has been fixed.
IOK-928295	The _isres_0x0411.dll file was not digitally signed, and therefore the Smart App Control on Windows 11 blocked the InstallShield DLL. This issue has been fixed.
IOK-884669	When a project is built using license IS 2021 R2 SAB-SUB-NL, it fails and displays an error message: ISDEV : fatal error -7159: The product license has expired or has not yet been initialized. This issue has been fixed.
IOK-751637	The Security scan report includes warnings on two security features (DEP and ASLR) against ARPPRODUCTICON.exe. This issue has been fixed.
IOK-708115	There were several issues regarding adding HTTPS_Proxy to the Windows registry, hence InstallShield will take proxy settings details from the default Windows proxy. This issue has been fixed.
IOK-708108	Windows Package Manger (WPM) prq is unable to install and hangs on a clean machine. This issue has been fixed.
IOJ-2251298	The temporary files from a previously installed version remain in the temp folder, and therefore when uninstalling the upgraded version, an error is displayed stating that another version of this product is already installed. This issue has been fixed.
IOJ-2248815	Documentation describing upgrading the InstallShield concurrent server off-line with a borrowed license was unclear. A new topic was added to the InstallShield activation documentation: Upgrading an InstallShield Concurrent Server Off-line with a Borrowed License.
IOJ-2243278	The Release Wizard does not display the prerequisite settings. This issue has been fixed.
IOJ-1990284	Adding an InstallScript custom action to a Basic MSI or InstallScript MSI project extracts few files to a predefined folder. This can lead to a possibility of DLL hijacking issue. This issue has been fixed.
IOJ-1615901	Installation hangs while creating a response file in a non-existent directory. This issue has been fixed.
IOK-930102	Zlib is upgraded to the latest version (v1.2.13).

InstallShield 2022 R1

The following issues have been resolved in InstallShield 2022 R1.

Issue Number	Issue Summary
IOJ-2260374	In Basic MSI project, when quick patch project was built, it had been noticed that the Product name, version, and Copyright details were not seen in the update.exe property details. This issue has been fixed.
IOJ-2255857	There are vulnerabilities reported in Zlib library (v1.2.11) used in InstallShield. Though InstallShield runtime is not impacted by this vulnerability, Zlib is upgraded to the latest version (v1.2.12).
IOJ-2255430	Automation layer failed to fetch the dynamic linked file details. This issue has been fixed.
IOJ-2245065	Installation was discontinued with a run-time error 1324 while building the project from the command line build. This issue has been fixed.
IOJ-2242528	MSI installer allowed the user to open an Administrator command prompt with elevated privileges. This issue has been fixed.
IOJ-2238399	In InstallScript project, the XML File Changes View failed to update the existing XML element during the runtime. This issue has been fixed.
IOJ-2198725	In InstallScript MSI project, uninstall dialog shown as “Preparing to Install” instead of “Preparing to Uninstall”. This issue has been fixed.
IOJ-2169906	In Suite project, release flags were not seen from package setting after migrating to InstallShield 2020R3. This issue has been fixed.
IOK-705771	The Checkbox controls added to the InstallWelcome dialog in the Basic MSI project was not visible during runtime, until the user mouse hover on the check boxes or click on the dialog. This issue has been fixed.
IOK-750483	Component was not created during dynamic scanning if the selected exe package contained space in its name. This issue has been fixed.

System Requirements

This section contains the minimum requirements for systems that run InstallShield (the authoring environment), as well as for target systems that run the installations created with InstallShield (the run-time environment).

For Systems Running InstallShield

InstallShield runs on the latest versions of these operating systems, fully updated with the most recent patches and service packs.

Item	Description
Processor	Pentium III-class PC (500 MHz or higher recommended)
RAM	256 MB of RAM (512 MB preferred)
Hard Disk	750 MB free space
Display	Designed for XGA resolution at 1024 × 768 or higher
Operating System	<ul style="list-style-type: none">• Windows Server 2008• Windows 7• Windows Server 2008 R2• Windows 8• Windows Server 2012• Windows 8.1• Windows Server 2012 R2• Windows 10• Windows Server 2016• Windows Server 2019• Windows 11• Windows Server 2022
Privileges	Administrative privileges on the system
Mouse	Microsoft IntelliMouse or other compatible pointing device

Item	Description
Optional Integration with Visual Studio	<p>The following versions of Microsoft Visual Studio can be integrated with InstallShield Premier or InstallShield Editions:</p> <ul style="list-style-type: none"> • Visual Studio 2008 • Visual Studio 2010 • Visual Studio 2012 • Visual Studio 2013 • Visual Studio 2015 • Visual Studio 2017 • Visual Studio 2019 • Visual Studio 2022 <p>The following editions of these versions of Visual Studio can be integrated with InstallShield Premier or InstallShield Editions:</p> <ul style="list-style-type: none"> • Professional • Premium • Ultimate • Enterprise

For Target Systems

For all project types except for Suites (Advanced UI, and Suite/Advanced UI project types), Windows XP SP3 and Windows Server 2003 SP2 are the minimum versions of Windows that are required for target systems that run the installations that are created in InstallShield. For Suites, Windows Vista and Windows Server 2008 are the minimum versions of Windows that are required for target systems.

Target systems must meet the following minimum operating system requirement:

- Windows Vista
- Windows Server 2008
- Windows 7
- Windows Server 2008 R2
- Windows 8
- Windows Server 2012
- Windows 8.1
- Windows Server 2012 R2
- Windows 10
- Windows Server 2016

- Windows Server 2019
- Windows 11
- Windows Server 2022

Target systems must also support the SSE2 instruction set.

Known Issues

There is no known issue for InstallShield 2022.

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