

# InstallShield 2023 Release Notes

Originally released in June 2023; updated to include R2 (December 2023)

|   |           |
|---|-----------|
| <b>Introduction .....</b>   | <b>2</b>  |
| <b>New Features in R2 .....</b>   | <b>2</b>  |
| <b>New Features in R1 .....</b>   | <b>4</b>  |
| <b>Enhancements.....</b>  | <b>5</b>  |
| InstallShield 2023 R2 .....   | 6         |
| InstallShield 2023 R1 .....   | 8         |
| <b>Important Information .....</b>  | <b>9</b>  |
| Concurrent License Users Must Update the FlexNet Licensing Server Software .....                          | 9         |
| Evaluating InstallShield .....  | 10        |
| Obtaining the Installations for InstallShield, InstallShield Add-Ons, and the Redistributable Files.....  | 10        |
| Installing More than One Edition of InstallShield.....  | 11        |
| Installing More than One Version of InstallShield.....  | 11        |
| Remove .NET/J# Tab and Include MSI Engine Options from the Releases View .....                            | 11        |
| <b>Project Upgrade Alerts.....</b>  | <b>11</b> |
| General Information about Upgrading Projects that Were Created in Earlier Versions of InstallShield ..... | 12        |
| Changes to the List of Supported Versions of Windows for Target Systems.....                              | 12        |
| Localized String Considerations.....  | 12        |
| <b>Resolved Issues.....</b>   | <b>12</b> |
| InstallShield 2023 R2 .....   | 13        |
| InstallShield 2023 R1 .....   | 15        |
| <b>System Requirements.....</b>   | <b>16</b> |
| For Systems Running InstallShield .....   | 16        |
| For Target Systems.....   | 17        |
| <b>Known Issues .....</b>   | <b>18</b> |
| <b>Legal Information .....</b>  | <b>19</b> |

# Introduction

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

InstallShield 2023 also offers new features, enhancements, and resolved issues that make it easy to use the latest technologies.

## New Features in R2

InstallShield 2023 R2 includes the following changes:

- [Ability to Digitally Sign Internal Files](#)
- [Ability to Configure Custom Signing Solution for Digital Signing](#)
- [New Hourly Scheduling Settings for Scheduled Tasks](#)
- [Command-Line Support to Download Prerequisites During Standalone Build](#)
- [Ability to Store Token Password for EV Digital Signing](#)

### Ability to Digitally Sign Internal Files

The InstallShield 2023 R2 Premier edition includes new settings named— **Prepare Files Event** and **Execute Batch file at Prepare files** in the **Events** tab for a release in the **Releases** explorer on the **Media** view— which enable you to digitally sign the unsigned InstallShield internal files, by specifying custom script/commands using a batch file (.bat or .cmd) or executable file (.exe).

These settings are not required if you are using the InstallShield in-built signing flow, since the signing of all binaries, including internal files, are managed by the default signing behavior.

These settings are required only if the customer would like to use the custom signing solution instead of the InstallShield standard signing solution.

For more information, see the [Events Tab for a Release](#) in the InstallShield product documentation.

### Ability to Configure Custom Signing Solution for Digital Signing

InstallShield 2023 R2 introduces new signing type settings that enable you to select and configure a custom signing solution to digitally sign build-generated files.

These settings are required only if the customer would like to use custom signing solution instead of the InstallShield standard signing solution. Selecting the **Custom** signing type enables additional fields where a custom signing utility path and arguments can be configured. To configure a custom signing solution, you can use the following new settings available in the **Signing** tab for a release in the **Releases** explorer on the **Media** view:

- **Signing Type**—This setting enables you to specify the method to digitally sign build-generated files. The available options for this setting are:
  - **Standard**—Select this option to use the default InstallShield sign tool to digitally sign build-generated files.

- **Custom**—Select this option to use a customized sign tool to digitally sign build-generated files. Selecting this option enables the **Path** and **Arguments** settings.
- **Path**—Specify the sign tool's location to digitally sign build-generated files by using that sign tool. To specify sign tool's location, click the ellipsis button (...) in this setting.
- **Arguments**—Specify the command-line argument for a sign tool's configuration. For example, the command-line argument below can be used if the Microsoft built-in signing tool is configured as a custom option to sign the binaries:

```
sign /fd SHA256 /f "<ProgramFilesFolder>\testCA.pfx" /t http://timestamp.digicert.com
/p MyPassword [filename]
```




---

**Note** - A custom signing tool path uses <ProgramFilesFolder>\Windows Kits\10\bin\<WinSDKVer>\x86\signtool.exe.

The [filename] variable is a place holder for the full file path to be signed. It resolves to the full path of the binary file to be signed during build time. By default, a file path will be added at the end of an argument and passed to a custom sign tool. Instead of using a hard-coded path, you can use any path variables and environment variables that are defined in your project.




---

**Note** - By default, the **Signing Type** setting is set to **Standard**.

## New Hourly Scheduling Settings for Scheduled Tasks

In InstallShield 2023 R2, you can now specify how often you want hourly scheduled tasks to repeat, and specify the duration of each scheduled task. The following settings have been introduced in the **Schedule** setting for a new task on the **Scheduled Tasks** explorer of the **System Configuration** view:

- **Repeat Interval (minutes)**— Use this setting to specify the interval, in minutes, that determines how often you want consecutive tasks to be executed in a specified duration. This interval calculation is based on the starting time of the previous scheduled task.  
  
For example, to run a task every hour from 8:00 AM to 5:00 PM, enter 60.
- **Duration Interval (minutes)**—Use this setting to specify the interval, in minutes, that determines the duration during which you want to repeat a scheduled task with an active trigger. Here, the interval that is specified must be greater than or equal to the interval value in the **Repeat Interval (minutes)** setting.

For example, start running a scheduled task at 8:00 AM and want to run it until 5:00 PM, enter 540.




---

**Note** - The **Duration Interval (minutes)** setting is enabled if the **Repeat Interval (minutes)** setting is specified with an interval value.

## Command-Line Support to Download Prerequisites During Standalone Build



**Project** ▪ This information applies to the following project types:

- Basic MSI
- InstallScript
- InstallScript MSI

InstallShield 2023 R2 introduces a new command-line parameter named `-prqdownload` which directs the Standalone build to automatically download missing InstallShield prerequisite binary files into the appropriate project directory when building a project from the command line with `ISCmDbld.exe`.



**Note** ▪ When a Suite/Advanced UI project is built using the `IscmDbld.exe` without this parameter, the required InstallShield prerequisite binary files for the ISM package get automatically downloaded into the project file. Therefore, this parameter is not applicable for the Suite/Advanced UI project.

## Ability to Store Token Password for EV Digital Signing

InstallShield 2023 R2 now provides an option to encrypt and store an EV token password in a project file. Prior InstallShield versions supported EV certificates via the **Use a certificate store** option. However, when using this option, the user would be asked for the token password each time the file is signed with an EV certificate.

There is also an option called Enable single logon that comes with an EV vendor which would restrict user interventions per session with only one token password request. Configuring the token password in the InstallShield signing tab will continue to work until the password expires. The token password can be changed using the the InstallShield IDE or the InstallShield automation layer.

For more information, see the following sections in the InstallShield product documentation:

- [Signing Tab for a Release](#)
- [General Tab for MSIX Release](#)

# New Features in R1

InstallShield 2023 R1 includes the following new features:

- [Windows Package Manager Package Support in a Suite/Advanced UI Project](#)
- [Introduced App Updates Check for a Suite/Advanced UI Project](#)
- [Visual Studio 2022 Integration in InstallShield 2023 R1](#)

## Windows Package Manager Package Support in a Suite/Advanced UI Project

InstallShield 2023 R1 introduces a new package type to Suite/Advanced UI projects: Windows Package Manager (WPM) Package. Windows Package Manager is a comprehensive package manager solution that consists of a command line tool and set of services for installing applications on Windows 10 and Windows 11.

Use the **Packages** explorer of the **Organization** view to add a Windows Package Manager (WPM) package to a Suite/Advanced UI project.

The target system must have a Windows Package Manager (WPM) solution installed in order to install a Windows Package Manager (WPM) package. A Windows Package Manager (WPM) solution is installed by an App Installer MSIX bundle. InstallShield adds an App Installer MSIX bundle package as a dependency package when the Windows Package Manager (WPM) package is added to the Suite/Advanced UI project. If the App Installer is not available in the target machine, InstallShield installs the App Installer MSIX bundle package. Windows Package Manager is supported through App Installer starting on Windows 10 1809.

## Introduced App Updates Check for a Suite/Advanced UI Project

InstallShield 2023 R1 introduces a new feature named **App Updates Check** in the **Updates** tab of the **Releases** explorer on the **Media** view, where you configure settings for a Suite/Advanced UI setup launcher updates.

This new feature lets you configure additional settings before build for periodically checking and displaying available application update when an application is deployed on a target machine. In relation to the first update check, subsequent updates appear according to the interval defined in the Installation Development Environment (IDE).

For example, once additional settings of the **App Updates Check** feature are configured before build and, if any update is available for any application, a dialog box is displayed with version update information along with the following three buttons:

- **Remind Later**—Click on this button to display the dialog box again with the recent update information in the next interval.
- **Skip Update**— Click on this button to prevent the dialog box with that specific update information appearing again.
- **Download**—Click on this button to download the update.

## Visual Studio 2022 Integration in InstallShield 2023 R1

InstallShield 2023 R1 introduces support for creating, editing, and building InstallScript projects from Visual Studio 2022.

# Enhancements

InstallShield 2023 includes the following enhancements:

- [InstallShield 2023 R2](#)
- [InstallShield 2023 R1](#)

# InstallShield 2023 R2

InstallShield 2023 R2 includes the following enhancements:

- **New Setting to Enable 64-Bit Signing Framework**
- **Automation Interface Support to Override the Setup.exe Version**
- **Setup.exe's New Parameter to Customize Temporary Extraction Directory**
- **Support for Digitally Signing .mst Files Using Build Events**
- **Missing Components Now Displayed in Build Errors**
- **New Prerequisite for SQL Server 2022**

## New Setting to Enable 64-Bit Signing Framework

InstallShield 2023 R2 introduces a new setting named **Use 64-Bit Signing** on the **Signing** tab of the **Releases** explorer on the **Media** view, that enables you to use the 64-bit signing framework to digitally sign a package. Available options are:

- **Yes**—Enables the 64-bit signing framework to digitally sign.
- **No**—Enables the 32-bit signing framework to digitally sign.

By default, this setting is set to **No**.



---

**Note** ▪ This setting is required if the cloud-based signing solutions like the Amazon Cloud HSM are used.



---

**Note** ▪ This change was tracked in ISDEV-43436.

## Automation Interface Support to Override the Setup.exe Version

InstallShield 2023 R2 introduces an automation interface support named `LauncherFileVersion`, to override the default file version with a custom file version for the `Setup.exe`.

This read-write string property of the `ISWiReleases` object is available in the Basic MSI, InstallScript, and InstallScript MSI projects.



---

**Note** ▪ This change was tracked in ISDEV-43367.

## Setup.exe's New Parameter to Customize Temporary Extraction Directory

For the `Setup.exe` launcher, InstallShield 2023 R2 introduces a new command-line parameter named `/tempextractpath`.

By default, the InstallShield setup extracts temporary files to the %TEMP% directory, loads these files to complete the installation, and then removes them once installation is completed. These temporary files include support files, billboards, and other InstallShield engine files used for executing custom actions. There are a few environment restriction scenarios, such as an antivirus which blocks an application from running executables from this %TEMP% extracted directory.

Using this parameter is recommended to customize the extraction directory in these scenarios. Security aspects have been considered by InstallShield while extracting and loading these files and binaries from a customized location.



---

**Note** ▪ This change was tracked in ISDEV-42332.

## Support for Digitally Signing .mst Files Using Build Events

Previously, there was no option to sign .mst files from build events that were generated during build time. This prevented the customers from using the alternative signing scripts from build events instead of the InstallShield built-in signing option.

InstallShield 2023 R2 includes support to digitally sign .mst files, by enabling you to specify the script for signing them using the **Precompression Event** setting on the **Event** tab for a release in the **Releases** explorer on the **Media** view.



---

**Note** ▪ This change was tracked in ISDEV-43495.

## Missing Components Now Displayed in Build Errors

In previous releases, when upgrading to the latest version of InstallShield, if some files are unavailable in a specific directory, the build errors that were generated specified only the missing files, not their missing components.

In InstallShield 2023 R2, to improve troubleshooting, build errors now list both missing component names and missing files.



---

**Note** ▪ This change was tracked in ISDEV-43296.

## New Prerequisite for SQL Server 2022



---

**Project** ▪ This information applies to the following project types:

- Basic MSI
- InstallScript
- InstallScript MSI

InstallShield 2023 R2 introduces a prerequisite named Microsoft SQL Server 2022 Express (x64) for SQL Server 2022. This prerequisite has been added in the **Redistributables** explorer of the **Application Data** view.



---

**Note** ▪ This change was tracked in ISDEV-43523.

# InstallShield 2023 R1

InstallShield 2023 R1 includes the following enhancements::

- Ability to Define Installation Condition for Windows Package Manager Prerequisite
- Enhanced Setup.exe to Verify Digital Signature
- New Setup Prerequisites Available
- Ability to Build Setup launcher with Security Features
- Ability to Handle Installers above 2 Gigabytes

## Ability to Define Installation Condition for Windows Package Manager Prerequisite

InstallShield 2023 R1 lets you define installation conditions on the **Conditions** tab of the **InstallShield Prerequisite Editor** to determine whether a Windows Package Manager (WPM) prerequisite package is already installed on the target machine.

For instance, during run time, if the target machine meets any one of the conditions listed on the **Conditions** tab, it determines that the Windows Package Manager (WPM) prerequisite package is already installed on the target machine.



---

**Note** ▪ This change was tracked in ISDEV-42589.

## Enhanced Setup.exe to Verify Digital Signature

In previous releases, an option given below was introduced in the Settings.xml file to enforce the digital signature of the MSI matches with the setup.exe setup launcher.

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

In InstallShield 2023 R1, above change has been extended to make sure the digital signature of the MSI is not tampered.



---

**Note** ▪ This change was tracked in ISDEV-42572.

## New Setup Prerequisites Available

In the **Redistributables** explorer of the **Application Data** view, InstallShield 2023 R1 introduces the following new setup prerequisites:

- Microsoft OLEDB Driver for SQL Server 19.3.0 (x64)
- Microsoft OLEDB Driver for SQL Server 19.3.0 (x86)



- Microsoft .NET 6.0 SDK 6.0.408 (x64)
- Microsoft .NET 6.0 SDK 6.0.408 (x86)
- Microsoft .NET 7.0 SDK 7.0.302 (x64)
- Microsoft .NET 7.0 SDK 7.0.302 (x86)



---

**Note** ▪ This issue was tracked in ISDEV-43005.

### Ability to Build Setup launcher with Security Features

All InstallShield 2023 R1 setup launchers are now built with the the latest security features like control-flow-guard, enforced-code-integrity, and aslr.



---

**Note** ▪ This issue was tracked in ISDEV-42510.

### Ability to Handle Installers above 2 Gigabytes

InstallShield 2023 R1 enables **LargeAddressAware** flag for all setup.exe setup launchers, so that setup.exe setup launchers can handle addresses larger than 2 gigabytes during runtime.



---

**Note** ▪ This issue was tracked in ISDEV-43244.

## Important Information

Note the following important information regarding the InstallShield 2023 release:

- [Concurrent License Users Must Update the FlexNet Licensing Server Software](#)
- [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](#)
- [Remove .NET/J# Tab and Include MSI Engine Options from the Releases View](#)

## 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 2023.

The version of the FlexNet Licensing Server software that shipped with previous versions of InstallShield cannot manage licenses of InstallShield 2023. InstallShield 2023 will not check out licenses from older versions of the license server even when those licenses are available.



**Note** - The FlexNet Licensing Server software v11.19.0 can manage licenses of InstallShield 2022 and InstallShield 2023. Upgrading from InstallShield 2022 to InstallShield 2023 lets you to use the existing FlexNet Licensing Server software v11.19.0. Upgrading from the InstallShield 2021 and older versions require the upgrading of FlexNet Licensing Server software to v11.19.0.

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 with 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 2023—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 2023 can coexist on the same machine with other versions of InstallShield.

The InstallShield 2023 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.

## Remove .NET/J# Tab and Include MSI Engine Options from the Releases View

The **.NET/J#** tab and **Include MSI Engine** options in the **Releases** explorer on the **Media** view of the **Installation Designer** were originally provided to support .NET 1.1/2.0, Windows Installer 3.1 and J# redistributables. These technologies have become obsolete and no longer supported by the Microsoft. Therefore, in InstallShield 2023 all editions, the **.NET/J#** tab and **Include MSI Engine** options in the **Releases** explorer on the **Media** view of the **Installation Designer** have been removed (as well as the associated .NET 1.1/2.0 Core Language and .NET 1.1/2.0 Language Packs dialog boxes). InstallShield 2023 build task will simply ignore these options if detected in the older version of project files.

## 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 2023. It also alerts you to possible changes in behavior that you may notice between new InstallShield 2023 projects and projects that are upgraded from InstallShield 2016 or earlier to InstallShield 2023.

- [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 2023 projects in earlier versions of InstallShield.

You can upgrade projects that were created with the following versions of InstallShield to InstallShield 2023: 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 2023.

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

For all project types, the Windows 7 and Windows Server 2008 R2 are the minimal Windows versions needed for target systems to run the installation generated in InstallShield.

## 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 2023 R2](#)
- [InstallShield 2023 R1](#)

# InstallShield 2023 R2

The following issues have been resolved in InstallShield 2023 R2:

| Issue Number       | Issue Summary   |
|--------------------|---|
| <b>ISDEV-43405</b> | Built a Suite project with the <b>Show Add or Remove Programs Entry</b> setting set to <b>No</b> , led to a build failure and displayed an error message: ISDEV : error -7385: Add and Remove Programs in General Information should be set to Yes as installer is configured to Check for Updates. This issue has been fixed.              |
| <b>ISDEV-43364</b> | InstallShield Standalone build with a Docker container failed and displayed an error message: docker: Error response from daemon: container <Container ID> encountered an error during hcs::System::Start: failure in a Windows system call: The virtual machine or container exited unexpectedly. (0xc0370106). This issue has been fixed. |
| <b>ISDEV-43342</b> | The ARPPRODUCTICON.exe file was not digitally signed and therefore the Smart App Control on the Windows 11 blocked files/executables. This issue has been fixed.  |
| <b>ISDEV-42983</b> | Configured the <b>Reboot Request</b> setting to the <b>Always reboot the machine</b> in a Suite project which contains a prerequisite, resulted to prompt a dialog: a restart is required and are given the option to reboot now or later, after prerequisite installation. This issue has been fixed.                                      |
| <b>ISDEV-43354</b> | Building a QuickPatch project with the <b>Extract COM Information</b> checkbox checked led to crash the InstallShield IDE. This issue has been fixed.   |
| <b>ISDEV-43284</b> | A project with a merge module built successfully while using the InstallShield IDE, but failed with the InstallShield Standalone build. This issue has been fixed.  |
| <b>ISDEV-43196</b> | An installer failed to launch with an error message because the ISSetup.dll file was not digitally signed when the Compile script option was selected. This issue has been fixed.   |
| <b>ISDEV-43500</b> | Possibility for the DLL hijacking security vulnerability to be observed due to a malicious DLL being copied into the Disk1 folder of a built installer which included the setup.exe with a different name. This issue has been fixed.   |
| <b>ISDEV-43476</b> | InstallShield Symlink vulnerability issue led to the Disk operating system corruption. This issue has been fixed.   |
| <b>ISDEV-43403</b> | InstallShield observed a crash while exporting the specific VBScript custom action stored in the <b>Custom Action</b> option. This issue has been fixed.  |

| Issue Number       | Issue Summary   |
|--------------------|---|
| <b>ISDEV-43437</b> | Silent installation of a Suite project failed to display the exit condition message and instead displayed only error numbers. This issue has been fixed.  |
| <b>ISDEV-43575</b> | A vulnerability was reported in the Zlib library (v1.2.13) used in InstallShield. Now, the Zlib is upgraded to the latest version (v1.3.0.1).   |
| <b>ISDEV-43490</b> | SAB2023 installation failed to include the InstallShield.Task.x64.dll file in the 2023 folder. This issue has been fixed.   |
| <b>ISDEV-43445</b> | Windows Server 2019 update resulted in a build failure with an error message: ISDEV : error -6003: An error occurred streaming 'C:\Program Files (x86)\InstallShield\2022\SetupPrerequisites\Microsoft .NET Framework 4.8 Full.prq' into setup.exe. This issue has been fixed.  |
| <b>ISDEV-43442</b> | A Setup.exe crash was observed when a Suite project built with the <b>Show Add or Remove Programs Entry</b> setting was set to <b>No</b> . This issue has been fixed.   |
| <b>ISDEV-43438</b> | Building a Suite project with the <b>Show Add or Remove Programs Entry</b> setting set to <b>No</b> led the setup to stay on the initializing dialog without any response and displayed a build error. This issue has been fixed.   |
| <b>ISDEV-43396</b> | The <b>InstallWelcome</b> dialog displayed black-box text on the <b>RebootDialog</b> window while installing setup.exe on Windows 10 and 11 Japanese editions. This issue has been investigated and a resolution has been documented. For information on resolution, see <a href="#">Dialog Functions</a> in the <i>InstallScript Reference Guide</i> . |
| <b>ISDEV-43265</b> | All locally copied items were included in the File MSI table when an installer was built with Visual Studio, but one locally copied item was not included in the File table when an installer was built with MSBuild. This issue has been fixed.  |
|                    |  <p><b>Note</b> ▪ Locally copied MSBuild target is available only for MSBuild shipped with Visual Studio 2019 or later. Therefore, this fix is only applicable to MSbuild shipped with Visual Studio 2019 or later.</p>  |
| <b>ISDEV-43059</b> | If an installer was built with Visual Studio, the NLog.dll was installed to the TARGETDIR; however, if an installation was built using MS Build, the NLog.dll was not installed to the TARGETDIR. This issue has been fixed.  |
|                    |  <p><b>Note</b> ▪ Locally copied MSBuild target is available only for MSBuild shipped with Visual Studio 2019 or later. Therefore, this fix is only applicable to MSbuild shipped with Visual Studio 2019 or later.</p>  |
| <b>ISDEV-43431</b> | A Suite/Advanced UI installer installation displayed a yellow progress bar if reboot was skipped on the target machine. This issue has been fixed   |

# InstallShield 2023 R1

The following issues have been resolved in InstallShield 2023 R1:

| Issue Number | Issue Summary   |
|--------------|---|
| ISDEV-42577  | Installation of the Microsoft .NET 5.0 Desktop Runtime 5.0.3 prerequisites triggered an installation of the Microsoft .NET 5.0 Desktop Runtime 5.0.3, resulting in the display of a failed message due to a higher version of the redistributable already being pre-installed on the target machine. This issue has been fixed. |
| ISDEV-42327  | For an InstallScript project, the SdExcpetions dialog box appeared with a truncated text. This issue has been fixed   |
| ISDEV-42950  | In a Basic MSI project, a build Warning-7065 appeared when the <b>Include MSI Engine</b> setting enabled in the <b>Setup.exe</b> tab. This issue has been fixed.  |
| ISDEV-42614  | An InstallScript project included an incorrect Brazilian Portuguese translation. This issue has been fixed.   |
| ISDEV-42635  | The <b>Predefined minimum database server version</b> drop down failed to display both the SQL Server 2019 Express and SQL Server 2022 Express options. This issue has been fixed.  |
| ISDEV-42703  | A forced repair on a manipulated / replaced executable in SUPPORTDIR led to regeneration of a security vulnerability. This issue has been fixed.  |
| ISDEV-42841  | Users failed to use the context-sensitive help for all keyword in InstallShield 2021 scripts. This issue has been fixed.  |
| ISDEV-42904  | 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.  |
| ISDEV-42977  | InstallShield prerequisite detected a Windows Server 2016, although the prerequisite condition was set to only run on Windows 10. This issue has been fixed.  |
| ISDEV-43026  | The InstallScript support/engine files extraction to a Temp directory led to a possibility of a DLL hijacking issue. This issue has been fixed.   |
| ISDEV-43108  | InstallScript installers failed to run, if a path provided to the <b>FeatureSetTarget</b> with a drive did not exist. This issue has been fixed.  |
| ISDEV-43126  | Suite project failed to display the package name on <b>ISParcelStatus</b> when <b>Download from the Web</b> option was selected. This issue has been fixed.   |
| ISDEV-43166  | When Visual Studio 2022 was not launched in an administrative mode for the first time, it failed to start. This issue has been fixed.   |

| Issue Number       | Issue Summary   |
|--------------------|---|
| <b>ISDEV-43203</b> | The _isuser_0x0411.dll file in the Temp folder was not digitally signed, and therefore the Smart App Control on Windows 11 blocked files /executables. This issue has been fixed.                   |
| <b>ISDEV-43217</b> | Manual installation of the Docker SAB failed and displayed an error message: ISDEV : fatal error -7159: The product license has expired or has not yet been initialized. This issue has been fixed. |
| <b>ISDEV-43337</b> | Opening the project led to observe InstallShield crash, creation of .dmp files, and display a message Exception ACCESS_VIOLATION (0XC0000005). 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](#)
- [For Target Systems](#)

## 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  |
|------------------|--|
| <b>Processor</b> | Pentium III-class PC (500 MHz or higher recommended) |
| <b>RAM</b>       | 1 GB of RAM (2 GB preferred)                         |
| <b>Hard Disk</b> | 1 GB free space                                      |
| <b>Display</b>   | Designed for XGA resolution at 1024 × 768 or higher  |



| Item   | Description  |
|--|--|
| <b>Operating System</b>                        | <ul style="list-style-type: none"> <li>Windows Server 2008 R2</li> <li>Windows Server 2012</li> <li>Windows 8.1</li> <li>Windows Server 2012 R2</li> <li>Windows 10</li> <li>Windows Server 2016</li> <li>Windows Server 2019</li> <li>Windows 11</li> <li>Windows Server 2022</li> </ul>  |
| <b>Privileges</b>                              | Administrative privileges on the system  |
| <b>Mouse</b>                                   | Microsoft IntelliMouse or other compatible pointing device   |
| <b>Optional Integration with Visual Studio</b> | <p>The following versions of Microsoft Visual Studio can be integrated with InstallShield Premier or InstallShield Editions:</p> <ul style="list-style-type: none"> <li>Visual Studio 2012</li> <li>Visual Studio 2013</li> <li>Visual Studio 2015</li> <li>Visual Studio 2017</li> <li>Visual Studio 2019</li> <li>Visual Studio 2022</li> </ul> <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"> <li>Professional</li> <li>Premium</li> <li>Ultimate</li> <li>Enterprise</li> </ul> |

## For Target Systems

Target systems must meet the following minimum operating system requirement:

- 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 2023.

# Legal Information

## Copyright Notice

Copyright © 2023 Flexera Software. All Rights Reserved.

This publication contains proprietary and confidential information and creative works owned by Flexera Software and its licensors, if any. Any use, copying, publication, distribution, display, modification, or transmission of such publication in whole or in part in any form or by any means without the prior express written permission of Flexera Software is strictly prohibited. Except where expressly provided by Flexera Software in writing, possession of this publication shall not be construed to confer any license or rights under any Flexera Software intellectual property rights, whether by estoppel, implication, or otherwise.

All copies of the technology and related information, if allowed by Flexera Software, must display this notice of copyright and ownership in full.

## Intellectual Property

For a list of trademarks and patents that are owned by Flexera Software, see <https://www.revenera.com/legal/intellectual-property.html>. All other brand and product names mentioned in Flexera Software products, product documentation, and marketing materials are the trademarks and registered trademarks of their respective owners.

## Restricted Rights Legend

The Software is commercial computer software. If the user or licensee of the Software is an agency, department, or other entity of the United States Government, the use, duplication, reproduction, release, modification, disclosure, or transfer of the Software, or any related documentation of any kind, including technical data and manuals, is restricted by a license agreement or by the terms of this Agreement in accordance with Federal Acquisition Regulation 12.212 for civilian purposes and Defense Federal Acquisition Regulation Supplement 227.7202 for military purposes. The Software was developed fully at private expense. All other use is prohibited.