InstallShield 2020 Express Edition Release Notes

Originally released May 2020; updated to include R3 SP1 (June 2021), R3 (November 2020), and R2 (August 2020)

Introduction

InstallShield is the industry standard for authoring high-quality Windows Installer–based installations.

InstallShield 2020 Express Edition also offers new features, enhancements, and resolved issues that make it easy to use the latest technologies.

For the latest information about InstallShield 2020 Express Edition, including updates to these release notes, see the online version of the InstallShield 2020 Express Edition release notes.

Changes in R3 SP1

InstallShield 2020 R3 SP1 includes the following changes:

- Enhancements in R3 SP1, refer to InstallShield 2020 R3 SP1 Express Edition.

- Resolved Issues in R3 SP1, refer to InstallShield 2020 R3 SP1 Express Edition.

Changes in R3

InstallShield 2020 Express Edition R3 includes the following changes:

- InstallShield Azure DevOps Build Extension

InstallShield Azure DevOps Build Extension

InstallShield 2020 R3 introduces native extension for building InstallShield projects in Azure DevOps pipelines. To configure the tasks and build InstallShield projects, see InstallShield Azure DevOps Build Extension KB article.

New Features

InstallShield 2020 Express Edition includes the following new feature:

- Pure 64-bit Installers

- Support for AWS CloudHSM Based Digital Signing

Pure 64-bit Installers

Starting with InstallShield 2020 R1 Express Edition, you are able to create installers using 64-bit launchers.

To create a Pure 64-Bit Installer, navigate to the **Product Configuration** view and set the **64-Bit Setup Launcher** property to **Yes**.
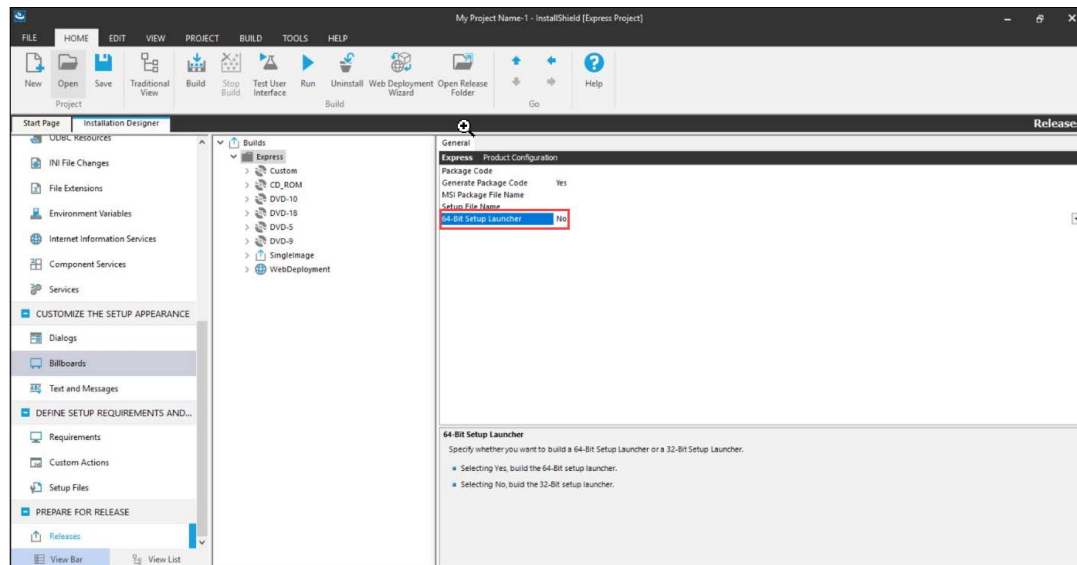
Support for AWS CloudHSM Based Digital Signing

You can now use InstallShield Express to digitally sign your installers using an AWS CloudHSM based digital certificate.

To enable this feature, add the below property displayed below to the Settings.xml file, found in the following location:

<<InstallShield_Location>/Support/<0409\0411>Settings.xml

Add the following property to the `Settings.xml` file:

```
<!-- Specify Platform = X86 | X64 for Digital Signing -->
<DigitalSignature Platform="X64"/>
```

Enhancements

InstallShield 2020 Express Edition releases include the following enhancements:

- InstallShield 2020 R3 Express Edition

- InstallShield 2020 R2 Express Edition

- InstallShield 2020 Express Edition

- InstallShield 2020 R3 SP1 Express Edition

InstallShield 2020 R3 SP1 Express Edition

InstallShield 2020 R3 SP1 Express Edition includes the following enhancements:

- Enhancement for VC++ 2019 Prerequisite Restart

- Prerequisite for .NET Core 3.1.12

- Prerequisite for .Net Core 5.0.3

- Prerequisite for .Net Core 5.0 Hosting Bundle

- Prerequisite for Microsoft SQL Server 2016 Express Management

Enhancement for VC++ 2019 Prerequisite Restart

Solution for the InstallShield VC++ 2019 prerequisite restart, due to the pending file rename for the temporary files created in the TEMP folder during the VC++ 2019 redistributable installation.

Modified InstallShield VC++ 2019 prerequisite and InstallShield 2020 R3 prerequisite engine to ignore the "PendingFileRenameOperations" registry key changes for the temporary files created in the TEMP folder during the VC++ 2019 prerequisite installation.

After this modification, the InstallShield VC++ 2019 prerequisite does not restart the machine after the installation even it is installed on a machine installed with VC++ 2017 redistributable.

Note ▪ This change was tracked in issue IOJ-2186316.

Prerequisite for .NET Core 3.1.12

Updated prerequisite list by adding the .NET core 3.1.12 prerequisite Redist list.

Note ▪ This change was tracked in issue IOJ-2182152.

Prerequisite for .Net Core 5.0.3

Created the prerequisite files for .NET Desktop Runtime 5.0.3 and ASP.NET Core Runtime 5.0.3 supporting x64 and x86 architecture.

Note ▪ This change was tracked in issue IOJ-2178383.

Prerequisite for .Net Core 5.0 Hosting Bundle

Created the prerequisite file for .Net Core 5.0 Hosting Bundle.

Note ▪ This change was tracked in issue IOJ-2163273.

Prerequisite for Microsoft SQL Server 2016 Express Management

Created the prerequisite file for Microsoft SQL Server 2016 Express Management Objects.

Note ▪ This change was tracked in issue IOJ-2160465.

InstallShield 2020 R3 Express Edition

InstallShield 2020 R3 Express Edition includes the following enhancements:

● New Command Line Parameter Supporting for License Check Time-Out

New Command Line Parameter Supporting for License Check Time-Out

Added command line parameter "-licCheckTimeOut" to set the time period to check the availability of the license from the license server.

InstallShield 2020 R2 Express Edition

InstallShield 2020 R2 Express Edition includes the following enhancements:

● Redistributable Downloader

Redistributable Downloader

Enhanced the InstallShield Express Redistributable Downloader Wizard to quickly download the latest pre-requisite files.
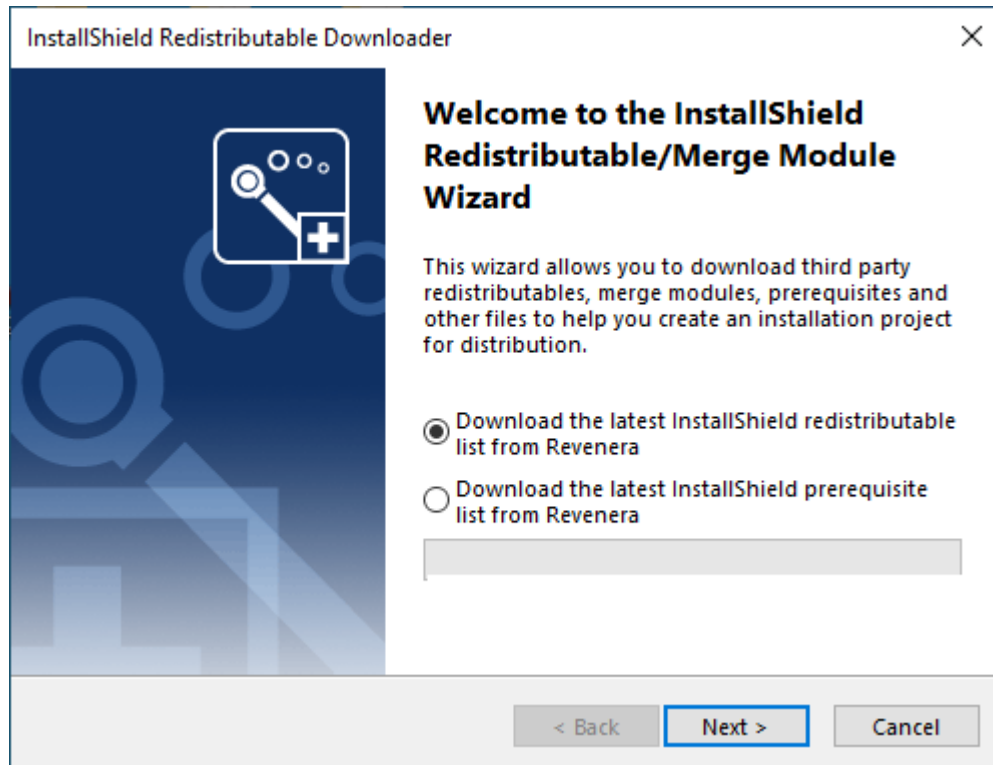
Note ▪ *This change was tracked in issue IOJ-2117349.*

InstallShield 2020 Express Edition

InstallShield 2020 Express Edition includes the following enhancements:

- Ability to Suppress Build All Command-Line Output Except Errors

- Configure File Version for Setup.exe

- New Setup Prerequisites

Ability to Suppress Build All Command-Line Output Except Errors

In InstallShield Express 2020, a new command-line parameter has been introduced: `/se`. When this parameter is used, it will suppress all command-line build output and display only errors, if any.

Note ▪ *This change was tracked in issue IOJ-2077162.*

Configure File Version for Setup.exe

You will now be able to configure **File Version** for `setup.exe` in the **Releases** view and you can override the project setting using command-line build with **-fv** switch.

Note ▪ This change was tracked in issue IOJ-1605084.

New Setup Prerequisites

In InstallShield Express 2020, the following Setup Prerequisites have been added:

- Microsoft OLE DB Driver 18.3.0.0

- Microsoft SQL Server 2019 Express

- Microsoft Visual C++ 2019

- Microsoft .NET Core Framework 3.1

- Updated install conditions for .NET Framework 4.8

Important Information

Note the following important information regarding the InstallShield 2020 Express Edition 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

- Removal of Update Notifications View

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.

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

The following installations are available for download from the Revenera Software 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)

Installing More than One Edition of InstallShield

Only one edition of InstallShield 2020 —Premier, Professional, or Express—can be installed on a system at a time. In addition, the InstallShield 2020 DIM Editor cannot be installed on the same machine with any edition of InstallShield 2020.

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 2020 Express Edition can coexist on the same machine with other versions of InstallShield.

The InstallShield 2020 Express Edition 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.

Removal of Update Notifications View

Starting InstallShield 2020 R1, Update Notifications, where you can integrate FlexNet Connect and InstallShield to check for updates, is no longer supported. The merge modules used for this integration are no longer bundled with InstallShield. If you are an existing customer using this integration, you can continue using the integration by copying the merge modules from a previous InstallShield installation. For more details, click here.

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 2020. It also alerts you to possible changes in behavior that you may notice between new InstallShield 2020 projects and projects that are upgraded from InstallShield 2016 or earlier to InstallShield 2020.

- 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 2020 projects in earlier versions of InstallShield.

You can upgrade projects that were created with the following versions of InstallShield to InstallShield 2020: 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 2020.

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 handing 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 Express Edition:

- InstallShield 2020 R3 SP1 Express Edition
- InstallShield 2020 R3 Express Edition
- InstallShield 2020 R2 Express Edition
- InstallShield 2020 Express Edition

InstallShield 2020 R3 SP1 Express Edition

The following issue has been resolved in InstallShield 2020 R3 SP1 Express Edition:

Issue Number	Issue Summary
IOJ-2193899	The VC++ 2010 prerequisite runtime URL was incorrect. To resolve this issue updated the correct prerequisite file in the product and Saturn server.
IOJ-2160741	The VS 2008 SP1 redistributable package was not downloadable from the Microsoft website. Now, this package is delivered via prerequisites downloader.

Issue Number	Issue Summary
IOJ-1928355	Prerequisite setup was failing to install the prerequisite from the mapped drive, with the error "Error reading setup initialization file". This issue has been fixed.

InstallShield 2020 R3 Express Edition

The following issue has been resolved in InstallShield 2020 R3 Express Edition:

Issue Number	Issue Summary
IOJ-2130601	The Setup was not launching when the setup.exe was renamed to setup.org and invoked using CreateProcess. Now the Setup can launch with setup.exe as well as with setup.org.
IOJ-2148734	The .NET Core 3.1 PRQ for Windows Hosting Bundle Installer can be downloaded from Web and extract from Setup.exe.
IOJ-2130141	Failed to install Specific Component service during installation. Now the Pl_error.dll registers properly, and Specific Component service is installed successfully.
IOJ-1898198	There were no notification shown when prerequisite(s) was failed to load. Now the appropriate error message is shown if the prerequisite(s) is failed to load.

InstallShield 2020 R2 Express Edition

The following issue has been resolved in InstallShield 2020 R2 Express Edition:

Issue Number	Issue Summary
IOJ-1720983	InstallShield crashes while building project in a machine with low disk space. This issue has been resolved.

InstallShield 2020 Express Edition

The following issues have been resolved in InstallShield 2020 Express Edition:

Issue Number	Issue Summary
IOJ-2109648	InstallShield used to crash while building a InstallScript MSI project, if the "Preprocessor Defines" field in the Build Setting Dialog is empty. This issue has been fixed.

Issue Number	Issue Summary
IOJ-2104998	Microsoft OLE DB Driver for SQL Server 18.2.2.0 Prerequisite Download Location for x86 and x64 was broken when prerequisites were to download from the web. The download links have been fixed in this release.
IOJ-2102367	Download link for Microsoft SQL Server Compact 4.0 (x64).prq was modified by Microsoft resulting in download errors while using this prerequisite in InstallShield 2019. This issue has been fixed.
IOJ-2102365	Prerequisite for .NET Framework 4.8 was checking an incorrect Release number, which had caused problem for Windows 10 1903 and 1909 releases. This issue has been fixed.
IOJ-2083142	Prerequisite for Microsoft SQL Server 2012 Native Client 11.2.5058.0 x64 failed to download in InstallShield 2018 and 2019. This issue has been fixed.
IOJ-1851668	The binaries (OpenSSL) which are used for checking updates causes vulnerabilities. The binaries (OpenSSL) are removed now.
IOJ-2106599	The web.config file of web application deployed using an installer built with InstallShield 2018 or later has Windows authentication mode entry when the Integrated Windows Authentication is set to No. Due to this, the web application would fail to start. 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
Processor	Pentium III-class PC (500 MHz or higher recommended)
RAM	256 MB of RAM (512 MB preferred)

Item	Description
Hard Disk	750 MB free space
Display	Designed for XGA resolution at 1024 × 768 or higher
Operating System	- 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
Privileges	Administrative privileges on the system
Mouse	Microsoft IntelliMouse or other compatible pointing device
Optional Integration with Visual Studio	The following versions of Microsoft Visual Studio can be integrated with InstallShield Premier or Professional Editions: - Visual Studio 2008 - Visual Studio 2010 - Visual Studio 2012 - Visual Studio 2013 - Visual Studio 2015 - Visual Studio 2017 - Visual Studio 2019 The following editions of these versions of Visual Studio can be integrated with InstallShield Premier or Professional Editions: - Professional - Premium - Ultimate

For Target Systems

Target systems must meet the following minimum operating system requirement:

- Windows XP SP3

- Windows Server 2003 SP2

- 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

Target systems must also support the SSE2 instruction set.

Known Issues

There is no known issue in InstallShield 2020 R3 SP1 Express Edition.

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