

Visual Studio detection properties and custom actions

The WixToolset.VisualStudio.wixext WiX extension includes detection of Visual Studio and its components and custom actions for integrating into Visual Studio.

To use WixToolset.VisualStudio.wixext properties or custom actions, you need to add a reference to the WixToolset.VisualStudio.wixext NuGet package to your project.

Using WixToolset.VisualStudio.wixext for Visual Studio 2003-2015

To use WixToolset.VisualStudio.wixext properties or custom actions for Visual Studio versions on end-user machines prior to Visual Studio 2017, add `PropertyRef` or `CustomActionRef` elements for properties or custom actions listed in the following tables that you want to use in your MSI. For example:

```
<PropertyRef Id="VS2005_ROOT_FOLDER" />
<CustomActionRef Id="VS2005Setup" />
```

Using WixToolset.VisualStudio.wixext for Visual Studio 2017 and later

To use WixToolset.VisualStudio.wixext properties or custom actions for Visual Studio 2017 and later on end-user machines:

- Add the `http://wixtoolset.org/schemas/v4/wxs/vs` namespace to your WiX authoring.
- Add a `FindVisualStudio` element to your authoring.
- Add `PropertyRef` or `CustomActionRef` elements for properties or custom actions listed in the following tables that you want to use in your MSI.

For example:

```
<Wix
  xmlns="http://wixtoolset.org/schemas/v4/wxs"
  xmlns:vs="http://wixtoolset.org/schemas/v4/wxs/vs">

  <Package>
    <vs:FindVisualStudio />
    <PropertyRef Id="VS2017DEVENV" />
    <PropertyRef Id="VS2019_IDE_VCSHARP_PROJECTSYSTEM_INSTALLED" />
    <PropertyRef Id="VS2022_ROOT_FOLDER" />
  </Package>
</Wix>
```

Visual Studio 2003 properties and custom actions

Property	Description
VS2003DEVENV	Full path to devenv.exe for Visual Studio .NET 2003 if it is installed on the system.
JSHARP_REDIST_11_INSTALLED	Indicates whether the J# redistributable package 1.1 is installed on the system.

Custom action	Description
VS2003Setup	Runs devenv.exe /setup if a Visual Studio .NET 2003 edition is found on the system.

Visual Studio 2005 properties and custom actions

Property	Description
VS2005DEVENV	Full path to devenv.exe for Visual Studio 2005 if it is installed on the system.
VS2005_ITEMTEMPLATES_DIR	Full path to the Visual Studio 2005 item templates directory.
VS2005_PROJECTTEMPLATES_DIR	Full path to the Visual Studio 2005 project templates directory.
VS2005_SCHEMAS_DIR	Full path to the Visual Studio 2005 XML schemas directory.
VS2005PROJECTAGGREGATOR2	Indicates whether the Visual Studio 2005 project aggregator for

Property	Description
	managed code add-ins is installed on the system.
VS2005_ROOT_FOLDER	Full path to the Visual Studio 2005 root installation directory.
VB2005EXPRESS_IDE	Full path to vbexpress.exe if Visual Basic 2005 Express Edition is installed on the system.
VS2005_IDE_VB_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2005 Standard Edition or higher is installed and the Visual Basic project system is installed for it.
VC2005EXPRESS_IDE	Full path to vcexpress.exe if Visual C++ 2005 Express Edition is installed on the system.
VS2005_IDE_VC_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2005 Standard Edition or higher is installed and the Visual C++ project system is installed for it.
VCSHARP2005EXPRESS_IDE	Full path to vcsharp2005express.exe if Visual C# 2005 Express Edition is installed on the system.
VS2005_IDE_VCSHARP_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2005 Standard Edition or higher is installed and the Visual C# project system is installed for it.
VJSHARP2005EXPRESS_IDE	Full path to vjsharp2005express.exe if Visual J# 2005 Express Edition is installed on the system.

Property	Description
VS2005_IDE_VJSHARP_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2005 Standard Edition or higher is installed and the Visual J# project system is installed for it.
VWD2005EXPRESS_IDE	Full path to vwdexpress.exe if Visual Web Developer 2005 Express Edition is installed on the system.
VS2005_IDE_VWD_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2005 Standard Edition or higher is installed and the Visual Web Developer project system is installed for it.
VS2005_IDE_VSTS_TESTSYSTEM_INSTALLED	Indicates whether the Visual Studio Team Test project system is installed on the system.
VSEXTENSIONS_FOR_NETFX30_INSTALLED	Indicates whether the Visual Studio 2008 Development Tools for the .NET Framework 3.0 add-in for Visual Studio 2005 is installed on the system.
VS2005_WAP_PROJECT_INSTALLED	Indicates whether the Web Application Project template for Visual Studio 2005 is installed on the system. This project template is available as a standalone add-in and as a part of visual Studio 2005 SP1.
VS2005_SP_LEVEL	Indicates the service pack level for Visual Studio 2005 Standard Edition and higher.
VSTF2005_SP_LEVEL	Indicates the service pack level for Visual Studio 2005 Team Foundation.

Property	Description
VB2005EXPRESS_SP_LEVEL	Indicates the service pack level for Visual Basic 2005 Express Edition.
VC2005EXPRESS_SP_LEVEL	Indicates the service pack level for Visual C++ 2005 Express Edition.
VCSHARP2005EXPRESS_SP_LEVEL	Indicates the service pack level for Visual C# 2005 Express Edition.
VJSHARP2005EXPRESS_SP_LEVEL	Indicates the service pack level for Visual J# 2005 Express Edition.
VWD2005EXPRESS_SP_LEVEL	Indicates the service pack level for Visual Web Developer 2005 Express Edition.
DEXPLORE_2005_INSTALLED	Indicates whether the Document Explorer 2005 runtime components package is installed on the system.
JSHARP_REDIST_20_INSTALLED	Indicates whether the J# redistributable package 2.0 is installed on the system.
JSHARP_REDIST_20SE_INSTALLED	Indicates whether the J# redistributable package 2.0 second edition is installed on the system.

Custom action	Description
VS2005Setup	Runs devenv.exe /setup if Visual Studio 2005 Standard Edition or higher is found on the system. Including this custom action automatically adds the VS2005DEVENV property.

Custom action	Description
VS2005InstallVSTemplates	Runs devenv.exe /InstallVSTemplates if Visual Studio 2005 Standard Edition or higher is found on the system. Including this custom action automatically adds the VS2005DEVENV property.
VB2005Setup	Runs vbexpress.exe /setup if Visual Basic 2005 Express Edition is found on the system. Including this custom action automatically adds the VB2005EXPRESS_IDE property.
VB2005InstallVSTemplates	Runs vbexpress.exe /InstallVSTemplates if Visual Basic 2005 Express Edition is found on the system. Including this custom action automatically adds the VB2005EXPRESS_IDE property.
VC2005Setup	Runs vcexpress.exe /setup if Visual C++ 2005 Express Edition is found on the system. Including this custom action automatically adds the VC2005EXPRESS_IDE property.
VC2005InstallVSTemplates	Runs vcexpress.exe /InstallVSTemplates if Visual C++ 2005 Express Edition is found on the system. Including this custom action automatically adds the VC2005EXPRESS_IDE property.
VCSHARP2005Setup	Runs vcsexpress.exe /setup if Visual C# 2005 Express Edition is found on the system. Including this custom action automatically adds the VCSHARP2005EXPRESS_IDE property.
VCSHARP2005InstallVSTemplates	Runs vcsexpress.exe /InstallVSTemplates if Visual C# 2005 Express Edition is found on the system. Including this custom action automatically adds the VCSHARP2005EXPRESS_IDE property.

Custom action	Description
VJSHARP2005Setup	Runs vjsexpress.exe /setup if Visual J# 2005 Express Edition is found on the system. Including this custom action automatically adds the VJSHARP2005EXPRESS_IDE property.
VJSHARP2005InstallVSTemplates	Runs vjsexpress.exe /InstallVSTemplates if Visual J# 2005 Express Edition is found on the system. Including this custom action automatically adds the VJSHARP2005EXPRESS_IDE property.
VWD2005Setup	Runs vwdexpress.exe /setup if Visual Web Developer 2005 Express Edition is found on the system. Including this custom action automatically adds the VWD2005EXPRESS_IDE property.
VWD2005InstallVSTemplates	Runs vwdexpress.exe /InstallVSTemplates if Visual Web Developer 2005 Express Edition is found on the system. Including this custom action automatically adds the VWD2005EXPRESS_IDE property.

Visual Studio 2008 properties and custom actions

Property	Description
VS90DEVENV	Full path to devenv.exe for Visual Studio 2008 if it is installed on the system.

Property	Description
VS90_ITEMTEMPLATES_DIR	Full path to the Visual Studio 2008 item templates directory.
VS90_PROJECTTEMPLATES_DIR	Full path to the Visual Studio 2008 project templates directory.
VS90_SCHEMAS_DIR	Full path to the Visual Studio 2008 XML schemas directory.
VS90_ROOT_FOLDER	Full path to the Visual Studio 2008 root installation directory.
VB90EXPRESS_IDE	Full path to vbexpress.exe if Visual Basic 2008 Express Edition is installed on the system.
VS90_IDE_VB_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2008 Standard Edition or higher is installed and the Visual Basic project system is installed for it.
VC90EXPRESS_IDE	Full path to vcexpress.exe if Visual C++ 2008 Express Edition is installed on the system.
VS90_IDE_VC_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2008 Standard Edition or higher is installed and the Visual C++ project system is installed for it.
VCSHARP90EXPRESS_IDE	Full path to vcsexpress.exe if Visual C# 2008 Express Edition is installed on the system.

Property	Description
VS90_IDE_VCSHARP_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2008 Standard Edition or higher is installed and the Visual C# project system is installed for it.
VWD90EXPRESS_IDE	Full path to vwdexpress.exe if Visual Web Developer 2008 Express Edition is installed on the system.
VS90_IDE_VWD_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2008 Standard Edition or higher is installed and the Visual Web Developer project system is installed for it.
VS90_IDE_VSTS_TESTSYSTEM_INSTALLED	Indicates whether the Visual Studio Team Test project system is installed on the system.
VS90_BOOTSTRAPPER_PACKAGE_FOLDER	The location of the Visual Studio 2008 bootstrapper package folder.
VS90_SP1	Indicates whether service pack 1 for Visual Studio 2008 Standard Edition and higher is installed.
VB90EXPRESS_SP1	Indicates whether service pack 1 for Visual Basic 2008 Express Edition is installed.
VC90EXPRESS_SP1	Indicates whether service pack 1 for Visual C++ 2008 Express Edition is installed.

Property	Description
VCSHARP90EXPRESS_SP1	Indicates whether service pack 1 for Visual C# 2008 Express Edition is installed.
VWD90EXPRESS_SP1	Indicates whether service pack 1 for Visual Web Developer 2008 Express Edition is installed.
DEXPLORE_2008_INSTALLED	Indicates whether the Document Explorer 2008 runtime components package is installed on the system.

Custom action	Description
VS90Setup	Runs devenv.exe /setup if Visual Studio 2008 Standard Edition or higher is found on the system. Including this custom action automatically adds the VS90DEVENV property.
VS90InstallVSTemplates	Runs devenv.exe /InstallVSTemplates if Visual Studio 2008 Standard Edition or higher is found on the system. Including this custom action automatically adds the VS90DEVENV property.
VB90Setup	Runs vbexpress.exe /setup if Visual Basic 2008 Express Edition is found on the system. Including this custom action automatically adds the VB90EXPRESS_IDE property.
VB90InstallVSTemplates	Runs vbexpress.exe /InstallVSTemplates if Visual Basic 2008 Express Edition is found on the system. Including this custom action automatically adds the VB90EXPRESS_IDE property.
VC90Setup	Runs vcexpress.exe /setup if Visual C++ 2008 Express Edition is found on the system.

Custom action	Description
	Including this custom action automatically adds the VC90EXPRESS_IDE property.
VC90InstallVSTemplates	Runs vcexpress.exe /InstallVSTemplates if Visual C++ 2008 Express Edition is found on the system. Including this custom action automatically adds the VC90EXPRESS_IDE property.
VCSHARP90Setup	Runs vcsexpress.exe /setup if Visual C# 2008 Express Edition is found on the system. Including this custom action automatically adds the VCSHARP90EXPRESS_IDE property.
VCSHARP90InstallVSTemplates	Runs vcsexpress.exe /InstallVSTemplates if Visual C# 2008 Express Edition is found on the system. Including this custom action automatically adds the VCSHARP90EXPRESS_IDE property.
VWD90Setup	Runs vwdexpress.exe /setup if Visual Web Developer 2008 Express Edition is found on the system. Including this custom action automatically adds the VWD90EXPRESS_IDE property.
VWD90InstallVSTemplates	Runs vwdexpress.exe /InstallVSTemplates if Visual Web Developer 2008 Express Edition is found on the system. Including this custom action automatically adds the VWD90EXPRESS_IDE property.

Visual Studio 2010 properties and custom actions

Property	Description
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Property	Description
VS2010DEVENV	Full path to devenv.exe for Visual Studio 2010 if it is installed on the system.
VS2010_ITEMTEMPLATES_DIR	Full path to the Visual Studio 2010 item templates directory.
VS2010_PROJECTTEMPLATES_DIR	Full path to the Visual Studio 2010 project templates directory.
VS2010_SCHEMAS_DIR	Full path to the Visual Studio 2010 XML schemas directory.
VS2010_ROOT_FOLDER	Full path to the Visual Studio 2010 root installation directory.
VB2010EXPRESS_IDE	Full path to vbexpress.exe if Visual Basic 2010 Express Edition is installed on the system.
VS2010_IDE_VB_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2010 Standard Edition or higher is installed and the Visual Basic project system is installed for it.
VC2010EXPRESS_IDE	Full path to vcexpress.exe if Visual C++ 2010 Express Edition is installed on the system.
VS2010_IDE_VC_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2010 Standard Edition or higher is installed and the Visual C++ project system is installed for it.

Property	Description
VCSHARP2010EXPRESS_IDE	Full path to vcsexpress.exe if Visual C# 2010 Express Edition is installed on the system.
VS2010_IDE_VCSHARP_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2010 Standard Edition or higher is installed and the Visual C# project system is installed for it.
VWD2010EXPRESS_IDE	Full path to vwdexpress.exe if Visual Web Developer 2010 Express Edition is installed on the system.
VS2010_IDE_VWD_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2010 Standard Edition or higher is installed and the Visual Web Developer project system is installed for it.
VPD2010EXPRESS_IDE	Full path to vpdexpress.exe if Visual Studio 2010 Express for Windows Phone is installed on the system.
VS2010_IDE_VSTS_TESTSYSTEM_INSTALLED	Indicates whether the Visual Studio 2010 Team Test project system is installed on the system.
VS2010_IDE_DB_PROJECTSYSTEM_INSTALLED	Indicates whether the Visual Studio 2010 Database project system is installed on the system.
VS2010_IDE_VSD_PROJECTSYSTEM_INSTALLED	Indicates whether the Visual Studio 2010 Deployment project system (setup project) is installed on the system.

Property	Description
VS2010_IDE_WIX_PROJECTSYSTEM_INSTALLED	Indicates whether the Visual Studio 2010 Windows Installer XML project system is installed on the system.
VS2010_IDE_MODELING_PROJECTSYSTEM_INSTALLED	Indicates whether the Visual Studio 2010 Modeling project system is installed on the system.
VS2010_IDE_FSHARP_PROJECTSYSTEM_INSTALLED	Indicates whether the Visual Studio 2010 F# project system is installed on the system.
VS2010_BOOTSTRAPPER_PACKAGE_FOLDER	The location of the Visual Studio 2010 bootstrapper package folder.

Custom action	Description
VS2010Setup	Runs devenv.exe /setup if Visual Studio 2010 Standard Edition or higher is found on the system. Including this custom action automatically adds the VS2010DEVENV property.
VS2010InstallVSTemplates	Runs devenv.exe /InstallVSTemplates if Visual Studio 2010 Standard Edition or higher is found on the system. Including this custom action automatically adds the VS2010DEVENV property.
VB2010Setup	Runs vbexpress.exe /setup if Visual Basic 2010 Express Edition is found on the system. Including this custom action automatically adds the VB2010EXPRESS_IDE property.
VB2010InstallVSTemplates	Runs vbexpress.exe /InstallVSTemplates if Visual Basic 2010 Express Edition is found on the

Custom action	Description
	system. Including this custom action automatically adds the VB2010EXPRESS_IDE property.
VC2010Setup	Runs vcexpress.exe /setup if Visual C++ 2010 Express Edition is found on the system. Including this custom action automatically adds the VC2010EXPRESS_IDE property.
VC2010InstallVSTemplates	Runs vcexpress.exe /InstallVSTemplates if Visual C++ 2010 Express Edition is found on the system. Including this custom action automatically adds the VC2010EXPRESS_IDE property.
VCSHARP2010Setup	Runs vcsexpress.exe /setup if Visual C# 2010 Express Edition is found on the system. Including this custom action automatically adds the VCSHARP2010EXPRESS_IDE property.
VCSHARP2010InstallVSTemplates	Runs vcsexpress.exe /InstallVSTemplates if Visual C# 2010 Express Edition is found on the system. Including this custom action automatically adds the VCSHARP2010EXPRESS_IDE property.
VWD2010Setup	Runs vwdexpress.exe /setup if Visual Web Developer 2010 Express Edition is found on the system. Including this custom action automatically adds the VWD2010EXPRESS_IDE property.
VWD2010InstallVSTemplates	Runs vwdexpress.exe /InstallVSTemplates if Visual Web Developer 2010 Express Edition is found on the system. Including this custom action automatically adds the VWD2010EXPRESS_IDE property.
VPD2010Setup	Runs vpdexpress.exe /setup if Visual Studio 2010 Express for Windows Phone is found on the system. Including this custom action automatically adds the VPD2010EXPRESS_IDE

Custom action	Description
	property.
VPD2010InstallVSTemplates	Runs vpdexpress.exe /InstallVSTemplates if Visual Studio 2010 Express for Windows Phone is found on the system. Including this custom action automatically adds the VPD2010EXPRESS_IDE property.

Visual Studio 2012 properties and custom actions

Property	Description
VS2012DEVENV	Full path to devenv.exe for Visual Studio 2012 if it is installed on the system.
VS2012_EXTENSIONS_DIR	Full path to the Visual Studio 2012 extensions directory.
VS2012_ITEMTEMPLATES_DIR	Full path to the Visual Studio 2012 item templates directory.
VS2012_PROJECTTEMPLATES_DIR	Full path to the Visual Studio 2012 project templates directory.
VS2012_SCHEMAS_DIR	Full path to the Visual Studio 2012 XML schemas directory.
VS2012_ROOT_FOLDER	Full path to the Visual Studio 2012 root installation directory.

Property	Description
VS2012_IDE_VB_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2012 Professional Edition or higher is installed and the Visual Basic project system is installed for it.
VS2012_IDE_VC_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2012 Professional Edition or higher is installed and the Visual C++ project system is installed for it.
VS2012_IDE_VCSHARP_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2012 Professional Edition or higher is installed and the Visual C# project system is installed for it.
VWD2012EXPRESS_IDE	Full path to vwdexpress.exe if Visual Studio Express 2012 for Web is installed on the system.
VPD2012EXPRESS_IDE	Full path to vpdexpress.exe if Visual Studio 2012 Express for Windows Phone is installed on the system.
VS2012_IDE_VWD_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2012 Professional Edition or higher is installed and the Visual Web Developer project system is installed for it.
VS2012_IDE_VSTS_TESTSYSTEM_INSTALLED	Indicates whether the Visual Studio 2012 Team Test project system is installed on the system.
VS2012_IDE_DB_PROJECTSYSTEM_INSTALLED	Indicates whether the Visual Studio 2012 Database project system is installed on the system.

Property	Description
VS2012_IDE_WIX_PROJECTSYSTEM_INSTALLED	Indicates whether the Windows Installer XML project system is installed on the system for Visual Studio 2012.
VS2012_IDE_MODELING_PROJECTSYSTEM_INSTALLED	Indicates whether the Visual Studio 2012 Modeling project system is installed on the system.
VS2012_IDE_FSHARP_PROJECTSYSTEM_INSTALLED	Indicates whether the Visual Studio 2012 F# project system is installed on the system.
VS2012_BOOTSTRAPPER_PACKAGE_FOLDER	The location of the Visual Studio 2012 bootstrapper package folder.

Custom action	Description
VS2012Setup	Runs devenv.exe /setup if Visual Studio 2012 Professional Edition or higher is found on the system. Including this custom action automatically adds the VS2012DEVENV property.
VS2012InstallVSTemplates	Runs devenv.exe /InstallVSTemplates if Visual Studio 2012 Professional Edition or higher is found on the system. Including this custom action automatically adds the VS2012DEVENV property.
VWD2012Setup	Runs vwdexpress.exe /setup if Visual Studio Express 2012 for Web is found on the system. Including this custom action automatically adds the VWD2012EXPRESS_IDE property.

Custom action	Description
VWD2012InstallVSTemplates	Runs vwdexpress.exe /InstallVSTemplates if Visual Studio Express 2012 for Web is found on the system. Including this custom action automatically adds the VWD2012EXPRESS_IDE property.
VS2012WinExpressSetup	Runs vswinexpress.exe /setup if Visual Studio Express 2012 for Windows 8 is found on the system. Including this custom action automatically adds the VS2012WINEXPRESS_IDE property.
VS2012WinExpressInstallVSTemplates	Runs vswinexpress.exe /InstallVSTemplates if Visual Studio Express 2012 for Windows 8 is found on the system. Including this custom action automatically adds the VS2012WINEXPRESS_IDE property.
VPD2012Setup	Runs vpdexpress.exe /setup if Visual Studio 2012 Express for Windows Phone is found on the system. Including this custom action automatically adds the VPD2012EXPRESS_IDE property.
VPD2012InstallVSTemplates	Runs vpdexpress.exe /InstallVSTemplates if Visual Studio 2012 Express for Windows Phone is found on the system. Including this custom action automatically adds the VPD2012EXPRESS_IDE property.

Visual Studio 2013 properties and custom actions

Property	Description
VS2013DEVENV	Full path to devenv.exe for Visual Studio 2013 if it is installed on the system.
VS2013_EXTENSIONS_DIR	Full path to the Visual Studio 2013 extensions directory.
VS2013_ITEMTEMPLATES_DIR	Full path to the Visual Studio 2013 item templates directory.
VS2013_PROJECTTEMPLATES_DIR	Full path to the Visual Studio 2013 project templates directory.
VS2013_SCHEMAS_DIR	Full path to the Visual Studio 2013 XML schemas directory.
VS2013_ROOT_FOLDER	Full path to the Visual Studio 2013 root installation directory.
VS2013_IDE_VB_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2013 Professional Edition or higher is installed and the Visual Basic project system is installed for it.
VS2013_IDE_VC_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2013 Professional Edition or higher is installed and the Visual C++ project system is installed for it.
VS2013_IDE_VCSHARP_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2013 Professional Edition or higher is installed and the Visual C# project system is installed for it.
VWD2013EXPRESS_IDE	Full path to vwdexpress.exe if Visual Studio Express 2013 for Web is installed on the system.

Property	Description
VS2013WINEXPRESS_IDE	Full path to vswinexpress.exe if Visual Studio Express 2013 for Windows is installed on the system.
VS2013WDEXPRESS_IDE	Full path to wdexpress.exe if Visual Studio Express 2013 for Windows Desktop is installed on the system.
VPD2013EXPRESS_IDE	Full path to vpdexpress.exe if Visual Studio 2013 Express for Windows Phone is installed on the system.
VS2013_IDE_VWD_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2013 Professional Edition or higher is installed and the Visual Web Developer project system is installed for it.
VS2013_IDE_VSTS_TESTSYSTEM_INSTALLED	Indicates whether the Visual Studio 2013 Team Test project system is installed on the system.
VS2013_IDE_WIX_PROJECTSYSTEM_INSTALLED	Indicates whether the Windows Installer XML project system is installed on the system for Visual Studio 2013.
VS2013_IDE_MODELING_PROJECTSYSTEM_INSTALLED	Indicates whether the Visual Studio 2013 Modeling project system is installed on the system.
VS2013_IDE_FSHARP_PROJECTSYSTEM_INSTALLED	Indicates whether the Visual Studio 2013 F# project system is installed on the system.

Property	Description
VS2013_BOOTSTRAPPER_PACKAGE_FOLDER	The location of the Visual Studio 2013 bootstrapper package folder.

Custom action	Description
VS2013Setup	Runs devenv.exe /setup if Visual Studio 2013 Professional Edition or higher is found on the system. Including this custom action automatically adds the VS2013DEVENV property.
VS2013InstallVSTemplates	Runs devenv.exe /InstallVSTemplates if Visual Studio 2013 Professional Edition or higher is found on the system. Including this custom action automatically adds the VS2013DEVENV property.
VWD2013Setup	Runs vwdexpress.exe /setup if Visual Studio Express 2013 for Web is found on the system. Including this custom action automatically adds the VWD2013EXPRESS_IDE property.
VWD2013InstallVSTemplates	Runs vwdexpress.exe /InstallVSTemplates if Visual Studio Express 2013 for Web is found on the system. Including this custom action automatically adds the VWD2013EXPRESS_IDE property.
VS2013WinExpressSetup	Runs vswinexpress.exe /setup if Visual Studio Express 2013 for Windows 8 is found on the system. Including this custom action automatically adds the VS2013WINEXPRESS_IDE property.

Custom action	Description
VS2013WinExpressInstallVSTemplates	Runs vswinexpress.exe /InstallVSTemplates if Visual Studio Express 2013 for Windows 8 is found on the system. Including this custom action automatically adds the VS2013WINEXPRESS_IDE property.
VS2013WDEpressSetup	Runs WDEpress.exe /setup if Visual Studio Express 2013 for Windows Desktop is found on the system. Including this custom action automatically adds the VS2013WDEXPRESS_IDE property.
VS2013WDEpressInstallVSTemplates	Runs WDEpress.exe /InstallVSTemplates if Visual Studio Express 2013 for Windows Desktop is found on the system. Including this custom action automatically adds the VS2013WDEXPRESS_IDE property.
VPD2013Setup	Runs vpdexpress.exe /setup if Visual Studio 2013 Express for Windows Phone is found on the system. Including this custom action automatically adds the VPD2013EXPRESS_IDE property.
VPD2013InstallVSTemplates	Runs vpdexpress.exe /InstallVSTemplates if Visual Studio 2013 Express for Windows Phone is found on the system. Including this custom action automatically adds the VPD2013EXPRESS_IDE property.

Visual Studio 2015 properties and custom actions

Property	Description
VS2015DEVENV	Full path to devenv.exe for Visual Studio 2015 if it is installed on the system.
VS2015_EXTENSIONS_DIR	Full path to the Visual Studio 2015 extensions directory.
VS2015_ITEMTEMPLATES_DIR	Full path to the Visual Studio 2015 item templates directory.
VS2015_PROJECTTEMPLATES_DIR	Full path to the Visual Studio 2015 project templates directory.
VS2015_SCHEMAS_DIR	Full path to the Visual Studio 2015 XML schemas directory.
VS2015_ROOT_FOLDER	Full path to the Visual Studio 2015 root installation directory.
VS2015_IDE_VB_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2015 Professional Edition or higher is installed and the Visual Basic project system is installed for it.
VS2015_IDE_VC_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2015 Professional Edition or higher is installed and the Visual C++ project system is installed for it.
VS2015_IDE_VCSHARP_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2015 Professional Edition or higher is installed and the Visual C# project system is installed for it.

Property	Description
VS2015_IDE_VWD_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2015 Professional Edition or higher is installed and the Visual Web Developer project system is installed for it.
VS2015_IDE_VSTS_TESTSYSTEM_INSTALLED	Indicates whether the Visual Studio 2015 Team Test project system is installed on the system.
VS2015_IDE_MODELING_PROJECTSYSTEM_INSTALLED	Indicates whether the Visual Studio 2015 Modeling project system is installed on the system.
VS2015_IDE_FSHARP_PROJECTSYSTEM_INSTALLED	Indicates whether the Visual Studio 2015 F# project system is installed on the system.
VS2015_BOOTSTRAPPER_PACKAGE_FOLDER	The location of the Visual Studio 2015 bootstrapper package folder.

Custom action	Description
VS2015Setup	Runs devenv.exe /setup if Visual Studio 2015 Professional Edition or higher is found on the system. Including this custom action automatically adds the VS2013DEVENV property.
VS2015InstallVSTemplates	Runs devenv.exe /InstallVSTemplates if Visual Studio 2015 Professional Edition or higher is found on the system. Including this custom action automatically adds the VS2013DEVENV property.

Visual Studio 2017 properties and custom actions

Property	Description
VS2017DEVENV	Full path to devenv.exe for Visual Studio 2017 if it is installed on the system.
VS2017_EXTENSIONS_DIR	Full path to the Visual Studio 2017 extensions directory.
VS2017_ITEMTEMPLATES_DIR	Full path to the Visual Studio 2017 item templates directory.
VS2017_PROJECTTEMPLATES_DIR	Full path to the Visual Studio 2017 project templates directory.
VS2017_SCHEMAS_DIR	Full path to the Visual Studio 2017 XML schemas directory.
VS2017_ROOT_FOLDER	Full path to the Visual Studio 2017 root installation directory.
VS2017_IDE_DIR	Full path to the Visual Studio 2017 directory containing devenv.exe.
VS2017_IDE_VB_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2017 Professional Edition or higher is installed and the Visual Basic project system is installed for it.
VS2017_IDE_VC_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2017 Professional Edition or higher is installed and the Visual C++ project system is installed for it.

Property	Description
VS2017_IDE_VCSHARP_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2017 Professional Edition or higher is installed and the Visual C# project system is installed for it.
VS2017_IDE_VWD_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2017 Professional Edition or higher is installed and the Visual Web Developer project system is installed for it.
VS2017_IDE_VSTS_TESTSYSTEM_INSTALLED	Indicates whether the Visual Studio 2017 Team Test project system is installed on the system.
VS2017_IDE_MODELING_PROJECTSYSTEM_INSTALLED	Indicates whether the Visual Studio 2017 Modeling project system is installed on the system.
VS2017_IDE_FSHARP_PROJECTSYSTEM_INSTALLED	Indicates whether the Visual Studio 2017 F# project system is installed on the system.
VS2017_BOOTSTRAPPER_PACKAGE_FOLDER	The location of the Visual Studio 2017 bootstrapper package folder.

Custom action	Description
VS2017Setup	Runs devenv.exe /setup if Visual Studio 2017 Community Edition or higher is found on the system. Including this custom action automatically adds the VS2017DEVENV property.
VS2017InstallVSTemplates	Runs devenv.exe /InstallVSTemplates if Visual Studio 2017 Community Edition or higher is found

Custom action	Description
	on the system. Including this custom action automatically adds the VS2017DEVENV property.

Visual Studio 2019 properties and custom actions

Property	Description
VS2019DEVENV	Full path to devenv.exe for Visual Studio 2019 if it is installed on the system.
VS2019_EXTENSIONS_DIR	Full path to the Visual Studio 2019 extensions directory.
VS2019_ITEMTEMPLATES_DIR	Full path to the Visual Studio 2019 item templates directory.
VS2019_PROJECTTEMPLATES_DIR	Full path to the Visual Studio 2019 project templates directory.
VS2019_SCHEMAS_DIR	Full path to the Visual Studio 2019 XML schemas directory.
VS2019_ROOT_FOLDER	Full path to the Visual Studio 2019 root installation directory.
VS2019_IDE_DIR	Full path to the Visual Studio 2019 directory containing devenv.exe.
VS2019_IDE_VB_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2019 Professional Edition or higher is installed and the Visual Basic project system is installed for it.

Property	Description
VS2019_IDE_VC_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2019 Professional Edition or higher is installed and the Visual C++ project system is installed for it.
VS2019_IDE_VCSHARP_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2019 Professional Edition or higher is installed and the Visual C# project system is installed for it.
VS2019_IDE_VWD_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2019 Professional Edition or higher is installed and the Visual Web Developer project system is installed for it.
VS2019_IDE_VSTS_TESTSYSTEM_INSTALLED	Indicates whether the Visual Studio 2019 Team Test project system is installed on the system.
VS2019_IDE_MODELING_PROJECTSYSTEM_INSTALLED	Indicates whether the Visual Studio 2019 Modeling project system is installed on the system.
VS2019_IDE_FSHARP_PROJECTSYSTEM_INSTALLED	Indicates whether the Visual Studio 2019 F# project system is installed on the system.
VS2019_BOOTSTRAPPER_PACKAGE_FOLDER	The location of the Visual Studio 2019 bootstrapper package folder.

Custom action	Description
VS2019Setup	Runs devenv.exe /setup if Visual Studio 2019 Community Edition or higher is found on the system.

Custom action	Description
	Including this custom action automatically adds the VS2019DEVENV property.
VS2019InstallVSTemplates	Runs devenv.exe /InstallVSTemplates if Visual Studio 2019 Community Edition or higher is found on the system. Including this custom action automatically adds the VS2019DEVENV property.

Visual Studio 2022 properties and custom actions

Property	Description
VS2022DEVENV	Full path to devenv.exe for Visual Studio 2022 if it is installed on the system.
VS2022_EXTENSIONS_DIR	Full path to the Visual Studio 2022 extensions directory.
VS2022_ITEMTEMPLATES_DIR	Full path to the Visual Studio 2022 item templates directory.
VS2022_PROJECTTEMPLATES_DIR	Full path to the Visual Studio 2022 project templates directory.
VS2022_SCHEMAS_DIR	Full path to the Visual Studio 2022 XML schemas directory.
VS2022_ROOT_FOLDER	Full path to the Visual Studio 2022 root installation directory.
VS2022_IDE_DIR	Full path to the Visual Studio 2022 directory containing devenv.exe.

Property	Description
VS2022_IDE_VB_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2022 Professional Edition or higher is installed and the Visual Basic project system is installed for it.
VS2022_IDE_VC_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2022 Professional Edition or higher is installed and the Visual C++ project system is installed for it.
VS2022_IDE_VCSHARP_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2022 Professional Edition or higher is installed and the Visual C# project system is installed for it.
VS2022_IDE_VWD_PROJECTSYSTEM_INSTALLED	Indicates whether Visual Studio 2022 Professional Edition or higher is installed and the Visual Web Developer project system is installed for it.
VS2022_IDE_VSTS_TESTSYSTEM_INSTALLED	Indicates whether the Visual Studio 2022 Team Test project system is installed on the system.
VS2022_IDE_MODELING_PROJECTSYSTEM_INSTALLED	Indicates whether the Visual Studio 2022 Modeling project system is installed on the system.
VS2022_IDE_FSHARP_PROJECTSYSTEM_INSTALLED	Indicates whether the Visual Studio 2022 F# project system is installed on the system.
VS2022_BOOTSTRAPPER_PACKAGE_FOLDER	The location of the Visual Studio 2022 bootstrapper package folder.

Custom action	Description
VS2022Setup	Runs devenv.exe /setup if Visual Studio 2022 Community Edition or higher is found on the system. Including this custom action automatically adds the VS2022DEVENV property.
VS2022InstallVSTemplates	Runs devenv.exe /InstallVSTemplates if Visual Studio 2022 Community Edition or higher is found on the system. Including this custom action automatically adds the VS2022DEVENV property.

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