MSBuild.ExtensionPack

Namespace

Overview

This namespace hosts the base task used for all Extension Pack tasks

Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BaseAppDomainIsolatedTask</td>
<td>Provides a common task for all the MSBuildExtensionPack Tasks that need to be instantiated in their own app domain.</td>
</tr>
<tr>
<td>BaseTask</td>
<td>Provides a common task for all the MSBuildExtensionPack Tasks</td>
</tr>
<tr>
<td>Utilities</td>
<td></td>
</tr>
</tbody>
</table>

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Send comments on this topic to MSBuild ExtensionPack Feedback
BaseAppDomainIsolatedTask  MSBuild Extension Pack Help
Class

Provides a common task for all the MSBuildExtensionPack Tasks that need to be instantiated in their own app domain.

Inheritance Hierarchy

SystemObject  System.MarshalByRefObject
      MSBuild.ExtensionPack.Framework.SmartExec

Namespace: MSBuild.ExtensionPack
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The BaseAppDomainIsolatedTask type exposes the following members.

Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![ ] Execute</td>
<td>Executes this instance. (Overrides AppDomainIsolatedTaskExecute.)</td>
</tr>
</tbody>
</table>

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![ ] AuthenticationLevel</td>
<td>Sets the authentication level to be used to connect to WMI. Default is Default. Also supports: Call, Connect, None, Packet, PacketIntegrity, PacketPrivacy, Unchanged</td>
</tr>
<tr>
<td>![ ] Authority</td>
<td>Sets the authority to be used to authenticate the specified user.</td>
</tr>
<tr>
<td>![ ] LogExceptionStack</td>
<td>Set to true to log the full Exception Stack to the console.</td>
</tr>
<tr>
<td>![ ] MachineName</td>
<td>Sets the MachineName.</td>
</tr>
<tr>
<td>![ ] SuppressTaskMessages</td>
<td>Set to true to suppress all Message logging by tasks. Errors and Warnings are not affected.</td>
</tr>
<tr>
<td>![ ] TaskAction</td>
<td>Sets the TaskAction.</td>
</tr>
</tbody>
</table>
### UserName
Sets the UserName

### UserPassword
Sets the UserPassword.

**See Also**

**Reference**

MSBuild.ExtensionPack Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
Methods

The `BaseAppDomainIsolatedTask` type exposes the following members.

## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Execute</td>
<td>Executes this instance. (Overrides <code>AppDomainIsolatedTaskExecute</code>.)</td>
</tr>
</tbody>
</table>

See Also

- `BaseAppDomainIsolatedTask Class`
- `MSBuild.ExtensionPack Namespace`

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Send comments on this topic to MSBuild ExtensionPack Feedback
**BaseAppDomainIsolatedTaskExecute Method**

Executes this instance.

**Namespace:** MSBuild.ExtensionPack  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

**See Also**

Reference  
BaseAppDomainIsolatedTask Class  
MSBuild.ExtensionPack Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
The **BaseAppDomainIsolatedTask** type exposes the following members.

## Properties

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<td>UserName</td>
<td>Sets the UserName</td>
</tr>
<tr>
<td>UserPassword</td>
<td>Sets the UserPassword.</td>
</tr>
</tbody>
</table>

## See Also

**Reference**

BaseAppDomainIsolatedTask Class  
MSBuild.ExtensionPack Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**BaseAppDomainIsolatedTaskAuthenticationLevel Property**

Sets the authentication level to be used to connect to WMI. Default is Default. Also supports: Call, Connect, None, Packet, PacketIntegrity, PacketPrivacy, Unchanged

**Namespace:** MSBuild.ExtensionPack

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

**Reference**

- BaseAppDomainIsolatedTask Class
- MSBuild.ExtensionPack Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
BaseAppDomainIsolatedTaskAuthority Property

Sets the authority to be used to authenticate the specified user.

Namespace: MSBuild.ExtensionPack
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
BaseAppDomainIsolatedTask Class
MSBuild.ExtensionPack Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
BaseAppDomainIsolatedTaskLogExceptionStack Property

Set to true to log the full Exception Stack to the console.

Namespace: MSBuild.ExtensionPack
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
BaseAppDomainIsolatedTask Class
MSBuild.ExtensionPack Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
BaseAppDomainIsolatedTaskMachineName Property

Sets the MachineName.

**Namespace:** MSBuild.ExtensionPack  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
BaseAppDomainIsolatedTask Class  
MSBuild.ExtensionPack Namespace

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BaseAppDomainIsolatedTaskSuppressTaskMessages Property

Set to true to suppress all Message logging by tasks. Errors and Warnings are not affected.

Namespace: MSBuild.ExtensionPack
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
BaseAppDomainIsolatedTask Class
MSBuild.ExtensionPack Namespace

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**BaseAppDomainIsolatedTaskTaskAction Property**

Sets the TaskAction.

**Namespace:** MSBuild.ExtensionPack  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

- BaseAppDomainIsolatedTask Class
- MSBuild.ExtensionPack Namespace

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BaseAppDomainIsolatedTaskUserName Property

Sets the UserName

Namespace: MSBuild.ExtensionPack
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

BaseAppDomainIsolatedTask Class
MSBuild.ExtensionPack Namespace

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BaseAppDomainIsolatedTaskUserPassword Property

Sets the UserPassword.

Namespace: MSBuild.ExtensionPack
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
BaseAppDomainIsolatedTask Class
MSBuild.ExtensionPack Namespace

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BaseTask Class

Provides a common task for all the MSBuildExtensionPack Tasks

Inheritance Hierarchy

System\Object  Microsoft.Build.UtilitiesTask
               MSBuild.ExtensionPackBaseTask

More...

Namespace: MSBuild.ExtensionPack

Assemblies:
  MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionsPack.Iis7.dll) Version: 4.0.0.0

The BaseTask type exposes the following members.

Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Execute</td>
<td>Executes this instance.</td>
</tr>
<tr>
<td></td>
<td>(Overrids Task.Execute.)</td>
</tr>
</tbody>
</table>

Top
# Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>AuthenticationLevel</td>
<td>Sets the authentication level to be used to connect to WMI. Default is Default. Also supports: Call, Connect, None, Packet, PacketIntegrity, PacketPrivacy, Unchanged</td>
</tr>
<tr>
<td>Authority</td>
<td>Sets the authority to be used to authenticate the specified user.</td>
</tr>
<tr>
<td>ErrorOnDeprecated</td>
<td>Set to true to error if the task has been deprecated</td>
</tr>
<tr>
<td>LogExceptionStack</td>
<td>Set to true to log the full Exception Stack to the console.</td>
</tr>
<tr>
<td>MachineName</td>
<td>Sets the MachineName.</td>
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<tr>
<td>SuppressTaskMessages</td>
<td>Set to true to suppress all Message logging by tasks. Errors and Warnings are not affected.</td>
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<tr>
<td>UserName</td>
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</tr>
<tr>
<td>UserPassword</td>
<td>Sets the UserPassword.</td>
</tr>
</tbody>
</table>

## See Also

Reference

MSBuild.ExtensionPack Namespace

## Inheritance Hierarchy

SystemObject

Microsoft.Build.UtilitiesTask

MSBuild.ExtensionPackBaseTask

MSBuild.ExtensionPack.BizTalkBizTalkAdaptor
MSBuild.ExtensionPack.BizTalkBizTalkApplication
MSBuild.ExtensionPack.BizTalkBizTalkAssembly
MSBuild.ExtensionPack.BizTalkBizTalkHost
MSBuild.ExtensionPack.BizTalkBizTalkHostInstance
MSBuild.ExtensionPack.BizTalkBizTalkReceiveHandler
MSBuild.ExtensionPack.BizTalkBizTalkSendHandler

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The **BaseTask** type exposes the following members.

## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Execute</td>
<td>Executes this instance. (Overrides Task.Execute.)</td>
</tr>
</tbody>
</table>

---

### See Also

Reference

- BaseTask Class
- MSBuild.ExtensionPack Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
BaseTaskExecute Method MSBuild Extension Pack Help 4.0.12.0

Executes this instance.

Namespace: MSBuild.ExtensionPack
MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0
MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll) Version: 4.0.0.0

See Also

Reference
BaseTask Class
MSBuild.ExtensionPack Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**BaseTask Properties**

MSBuild Extension Pack Help 4.0.12.0

The **BaseTask** type exposes the following members.

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AuthenticationLevel</td>
<td>Sets the authentication level to be used to connect to WMI. Default is Default. Also supports: Call, Connect, None, Packet, PacketIntegrity, PacketPrivacy, Unchanged</td>
</tr>
<tr>
<td>Authority</td>
<td>Sets the authority to be used to authenticate the specified user.</td>
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</tr>
<tr>
<td>UserPassword</td>
<td>Sets the UserPassword.</td>
</tr>
</tbody>
</table>

**Top**

**See Also**

Reference

BaseTask Class

MSBuild.ExtensionPack Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**BaseTaskAuthenticationLevel**  
MSBuild Extension Pack Help  
4.0.12.0

Sets the authentication level to be used to connect to WMI. Default is Default. Also supports: Call, Connect, None, Packet, PacketIntegrity, PacketPrivacy, Unchanged

**Namespace:** MSBuild.ExtensionPack  
**Assemblies:**  
MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0  
MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll) Version: 4.0.0.0  

**See Also**

**Reference**  
BaseTask Class  
MSBuild.ExtensionPack Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**BaseTaskAuthority**

**Property**  
Sets the authority to be used to authenticate the specified user.

**Namespace:** [MSBuild.ExtensionPack](#)  
**Assemblies:**  
- MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0  
- MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll) Version: 4.0.0.0  

**See Also**

**Reference**  
- BaseTask Class  
- MSBuild.ExtensionPack Namespace

---

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Send comments on this topic to [MSBuild ExtensionPack Feedback](mailto:feedback@www.MSBuildExtensionPack.com)
BaseTask.ErrorOnDeprecated Property

Set to true to error if the task has been deprecated

**Namespace:** MSBuild.ExtensionPack

**Assemblies:**
- MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0
- MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll) Version: 4.0.0.0

**See Also**

Reference
- BaseTask Class
- MSBuild.ExtensionPack Namespace

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See Also

Reference

BaseTask Class
MSBuild.ExtensionPack Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
BaseTaskMachineName Property

Sets the MachineName.

Namespace: MSBuild.ExtensionPack

    MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll) Version: 4.0.0.0

See Also

Reference
BaseTask Class
MSBuild.ExtensionPack Namespace

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**BaseTask**

**SuppressTaskMessages Property**

Set to true to suppress all Message logging by tasks. Errors and Warnings are not affected.

**Namespace:** MSBuild.ExtensionPack

**Assemblies:**
- MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0
- MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll) Version: 4.0.0.0

**See Also**

- BaseTask Class
- MSBuild.ExtensionPack Namespace

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**BaseTaskTaskAction**

Sets the TaskAction.

**Namespace:** [MSBuild.ExtensionPack](http://www.MSBuildExtensionPack.com)

**Assemblies:**
- MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0
- MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll) Version: 4.0.0.0

**See Also**

Reference
- BaseTask Class
- MSBuild.ExtensionPack Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**BaseTaskUserName** Property

Sets the UserName

**Namespace:** MSBuild.ExtensionPack

**Assemblies:**
- MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0
- MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll) Version: 4.0.0.0

**See Also**

Reference
- **BaseTask Class**
- **MSBuild.ExtensionPack Namespace**

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Send comments on this topic to MSBuild ExtensionPack Feedback
**BaseTaskUserPassword Property**

Sets the UserPassword.

**Namespace:** [MSBuild.ExtensionPack](#)

**Assemblies:**
- MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0
- MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll) Version: 4.0.0.0

**See Also**

Reference
- **BaseTask Class**
- **MSBuild.ExtensionPack Namespace**

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Utilities Class

Inheritance Hierarchy

**SystemObject**  **MSBuild.ExtensionPackUtilities**

**Namespace:** MSBuild.ExtensionPack  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

The **Utilities** type exposes the following members.

## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ExecuteWithLogging</td>
<td>Executes a tool, logs standard error and a nonzero exit code as errors,</td>
</tr>
<tr>
<td></td>
<td>returns the output and optionally logs that as well.</td>
</tr>
</tbody>
</table>

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SoftwareRegistry32Bit</td>
<td>Returns the 32 bit HKLM\SOFTWARE registry key. May return null if it doesn't</td>
</tr>
<tr>
<td></td>
<td>exist. Dispose of the return value.</td>
</tr>
<tr>
<td>SoftwareRegistry64Bit</td>
<td>Returns the 64 bit HKLM\SOFTWARE registry key. May return null if it doesn't</td>
</tr>
<tr>
<td></td>
<td>exist. Dispose of the return value.</td>
</tr>
<tr>
<td>SoftwareRegistryNative</td>
<td>For a 32 bit process, it returns the 32 bit HKLM\SOFTWARE registry key,</td>
</tr>
<tr>
<td></td>
<td>otherwise the 64 bit one. May return null if it doesn't exist. Dispose of</td>
</tr>
<tr>
<td></td>
<td>the return value.</td>
</tr>
<tr>
<td>SoftwareRegistryNonnative</td>
<td>For a 32 bit process, it returns the 64 bit HKLM\SOFTWARE registry key,</td>
</tr>
<tr>
<td></td>
<td>otherwise the 32 bit one. May return null if it doesn't exist. Dispose of</td>
</tr>
<tr>
<td></td>
<td>the return value.</td>
</tr>
</tbody>
</table>

## See Also

**Reference**  
MSBuild.ExtensionPack Namespace

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The **Utilities** type exposes the following members.

## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="icon" /> ExecuteWithLogging</td>
<td>Executes a tool, logs standard error and a nonzero exit code as errors, returns the output and optionally logs that as well.</td>
</tr>
</tbody>
</table>

## See Also

**Reference**

- **Utilities Class**
- **MSBuild.ExtensionPack Namespace**

---

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Send comments on this topic to [MSBuild ExtensionPack Feedback](mailto:feedback@msbuildextensionpack.com)
UtilitiesExecuteWithLogging Method

Executes a tool, logs standard error and a nonzero exit code as errors, returns the output and optionally logs that as well.

Namespace: MSBuild.ExtensionPack
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Utilities Class
MSBuild.ExtensionPack Namespace

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The **Utilities** type exposes the following members.

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<th>Description</th>
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</tr>
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<td>SoftwareRegistry64Bit</td>
<td>Returns the 64 bit HKLM\SOFTWARE registry key. May return null if it doesn't exist. Dispose of the return value.</td>
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<td>For a 32 bit process, it returns the 32 bit HKLM\SOFTWARE registry key, otherwise the 64 bit one. May return null if it doesn't exist. Dispose of the return value.</td>
</tr>
<tr>
<td>SoftwareRegistryNonnative</td>
<td>For a 32 bit process, it returns the 64 bit HKLM\SOFTWARE registry key, otherwise the 32 bit one. May return null if it doesn't exist. Dispose of the return value.</td>
</tr>
</tbody>
</table>

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Send comments on this topic to MSBuild ExtensionPack Feedback
Utilities\SoftwareRegistry32Bit  MSBuild Extension Pack Help  4.0.12.0

Property

Returns the 32 bit HKLM\SOFTWARE registry key. May return null if it doesn't exist. Dispose of the return value.

Namespace:  MSBuild.ExtensionPack
Assembly:  MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  Version:  4.0.0.0

See Also

Reference
Utilities Class
MSBuild.ExtensionPack Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
UtilitiesSoftwareRegistry64Bit  MSBuild Extension Pack Help  4.0.12.0

Property

Returns the 64 bit HKLM\SOFTWARE registry key. May return null if it doesn't exist. Dispose of the return value.

Namespace: MSBuild.ExtensionPack
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Utilities Class
MSBuild.ExtensionPack Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
UtilitiesSoftwareRegistryNative Property

For a 32 bit process, it returns the 32 bit HKLM\SOFTWARE registry key, otherwise the 64 bit one. May return null if it doesn't exist. Dispose of the return value.

Namespace: MSBuild Extension Pack
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Utilities Class
MSBuild.ExtensionPack Namespace

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Utilities \texttt{SoftwareRegistryNonnative} Property

For a 32 bit process, it returns the 64 bit HKLM\SOFTWARE registry key, otherwise the 32 bit one. May return null if it doesn't exist. Dispose of the return value.

\textbf{Namespace:} MSBuild.ExtensionPack  
\textbf{Assembly:} MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) \textbf{Version:} 4.0.0.0

\textbf{See Also}

Reference

Utilities Class  
MSBuild.ExtensionPack Namespace

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Overview

This namespace hosts all BizTalk 2006 tasks. The BizTalkApplication task file provides TaskActions targeting BizTalk Applications.

Additional functionality will be provided in the upcoming BizTalkOrchestration, BizTalkReceivePort and BizTalkSendPort task files.

Helpful Links

BizTalk Server 2006

Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BizTalkAdaptor</td>
<td><strong>Valid TaskActions are:</strong></td>
</tr>
<tr>
<td></td>
<td><em>CheckExists (Required: AdaptorName Optional: MachineName, DatabaseServer, Database Output: Exists, Comment)</em></td>
</tr>
<tr>
<td></td>
<td><em>Create (Required: AdaptorName MgmtCLSID Optional: MachineName, DatabaseServer, Database, Comment, Constraints)</em></td>
</tr>
<tr>
<td></td>
<td><em>Delete (Required: AdaptorName Optional: MachineName, DatabaseServer, Database)</em></td>
</tr>
<tr>
<td></td>
<td><strong>Remote Execution Support:</strong> Yes</td>
</tr>
<tr>
<td>BizTalkApplication</td>
<td><strong>Valid TaskActions are:</strong></td>
</tr>
<tr>
<td></td>
<td><em>AddReference (Required: Application, References Optional: MachineName, DatabaseServer, Database)</em></td>
</tr>
<tr>
<td></td>
<td><em>CheckExists (Required: Application Optional: MachineName, DatabaseServer, Database)</em></td>
</tr>
<tr>
<td></td>
<td><em>Create (Required: Applications Optional: MachineName, DatabaseServer, Database)</em></td>
</tr>
</tbody>
</table>
Delete (Required: Applications Optional: MachineName, DatabaseServer, Database)

DisableAllReceiveLocations (Required: Applications Optional: MachineName, DatabaseServer, Database)

EnableAllReceiveLocations (Required: Applications Optional: MachineName, DatabaseServer, Database)

DisableReceiveLocations (Required: Applications, ReceiveLocations Optional: MachineName, DatabaseServer, Database)

EnableReceiveLocations (Required: Applications, ReceiveLocations Optional: MachineName, DatabaseServer, Database)

ExportBindings (Required: BindingFile Optional: Application, MachineName, DatabaseServer, Database)

ExportToMsi (Required: Application, MsiPath Optional: MachineName, DatabaseServer, Database, IncludeGlobalPartyBinding, Resources)

ImportBindings (Required: BindingFile Optional: Application, MachineName, DatabaseServer, Database)

ImportFromMsi (Required: MsiPath Optional: MachineName, DatabaseServer, Database, Application, Overwrite)

Get (Optional: MachineName, DatabaseServer, Database)

RemoveReference (Required: Application, References Optional: MachineName, DatabaseServer, Database)

StartAll (Required: Applications Optional: MachineName, DatabaseServer, Database)

StartAllOrchestrations (Required: Applications Optional: MachineName, DatabaseServer, Database)

StartAllSendPortGroups (Required: Applications Optional: MachineName, DatabaseServer, Database)

StartAllSendPorts (Required: Applications Optional: MachineName, DatabaseServer, Database)

StartReferencedApplications (Required: Applications Optional: MachineName, DatabaseServer, Database)

StopAll (Required: Applications Optional: MachineName, DatabaseServer, Database)
**StopReferencedApplications** *(Required: Applications Optional: MachineName, DatabaseServer, Database)*

**UndeployAllPolicies** *(Required: Applications Optional: MachineName, DatabaseServer, Database)*

**UnenlistAllOrchestrations** *(Required: Applications Optional: MachineName, DatabaseServer, Database)*

**UnenlistAllSendPortGroups** *(Required: Applications Optional: MachineName, DatabaseServer, Database)*

**UnenlistAllSendPorts** *(Required: Applications Optional: MachineName, DatabaseServer, Database)*

**Remote Execution Support:** Yes

---

**BizTalkAssembly**

**Valid TaskActions are:**

*Add* *(Required: Application, Assemblies Optional: MachineName, DatabaseServer, DeploymentPath, Database, Gac, Force, GacOnAddResource, GacOnMSIFileImport, GacOnMSIFileInstall, DestinationLocation)*

*Remove* *(Required: Application, Assemblies Optional: MachineName, DatabaseServer, Database)*

*CheckExists* *(Required: Application, Assemblies Optional: MachineName, DatabaseServer, Database Output: Exists)*

**Remote Execution Support:** Yes

---

**BizTalkHost**

**Valid TaskActions are:**

*CheckExists* *(Required: HostName Optional: MachineName, DatabaseServer, Database Output: Exists)*

*Create* *(Required: HostName, WindowsGroup Optional: MachineName, DatabaseServer, Database, HostType, Use32BitHostOnly, Trusted, Tracking, Default, AdditionalHostSettings)*

*Delete* *(Required: HostName Optional: MachineName, DatabaseServer, Database)*

*Update* *(Required: HostName, WindowsGroup Optional: MachineName, Database, DatabaseServer, HostType, Use32BitHostOnly, Trusted, Tracking, Default, AdditionalHostSettings)*

**Remote Execution Support:** Yes
### BizTalkHostInstance

**Valid TaskActions are:**

- **CheckExists** *(Required: HostName Optional: MachineName)*  
  **Output:** Exists, State

- **Create** *(Required: HostName, AccountName, AccountPassword Optional: MachineName, Force)*

- **Delete** *(Required: HostName Optional: MachineName)*

- **Get** *(Optional: MachineName Output: HostInstances)*

- **GetState** *(Required: HostName Optional: MachineName)*  
  **Output:** State

- **Start** *(Required: HostName or HostInstances Optional: MachineName)*

- **Stop** *(Required: HostName or HostInstances Optional: MachineName)*

**Remote Execution Support:** Yes

### BizTalkReceiveHandler

**Valid TaskActions are:**

- **CheckExists** *(Required: HostName, AdapterName Optional: MachineName, DatabaseServer, Database)*  
  **Output:** Exists

- **Create** *(Required: HostName, AdapterName Optional: MachineName, DatabaseServer, Database, CustomCfg, Force)*

- **Delete** *(Required: HostName, AdapterName Optional: MachineName, DatabaseServer, Database)*

- **Get** *(Optional: HostName, AdapterName, MachineName, DatabaseServer, Database)*  
  **Output:** ReceiveHandlers

**Remote Execution Support:** Yes

### BizTalkSendHandler

**Valid TaskActions are:**

- **CheckExists** *(Required: HostName, AdapterName Optional: MachineName, DatabaseServer, Database)*  
  **Output:** Exists

- **Create** *(Required: HostName, AdapterName Optional: MachineName, Default, DatabaseServer, Database, CustomCfg, Force)*

- **Delete** *(Required: HostName, AdapterName Optional: MachineName, DatabaseServer, Database)*

- **Get** *(Optional: HostName, AdapterName, MachineName, DatabaseServer, Database)*  
  **Output:** SendHandlers
| **Remote Execution Support:** | Yes |

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**BizTalkAdaptor Class**

**Valid TaskActions are:**

*CheckExists (Required: AdaptorName Optional: MachineName, DatabaseServer, Database Output: Exists, Comment)*

*Create (Required: AdaptorName, MgmtCLSID Optional: MachineName, DatabaseServer, Database, Comment, Constraints)*

*Delete (Required: AdaptorName Optional: MachineName, DatabaseServer, Database)*

**Remote Execution Support:** Yes

**Inheritance Hierarchy**


**Namespace:** MSBuild.ExtensionPack.BizTalk


The **BizTalkAdaptor** type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🎊 BizTalkAdaptor</td>
<td></td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🌐 AdaptorName</td>
<td>Sets the Adaptor Name.</td>
</tr>
<tr>
<td>🌐 Comment</td>
<td>Sets the Adaptor comment.</td>
</tr>
<tr>
<td>🌐 Constraints</td>
<td>Sets the Constraints</td>
</tr>
<tr>
<td>🌐 Database</td>
<td>Sets the Management Database to connect to. Default is BizTalkMgmtDb</td>
</tr>
</tbody>
</table>
### DatabaseServer
Sets the DatabaseServer to connect to. Default is MachineName

### Exists
Gets whether the Adaptor exists

### MgmtCLSID
Sets the MgmtCLSID guid

---

## Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- Check an Adaptor Exists -->
      <Output TaskParameter="Exists" PropertyName="AdaptorExists" />
      <Message Text="WCF-SQL Exists: $(AdaptorExists)" />
    <!-- Delete an Adaptor -->
      <!-- Check an Adaptor Exists -->
        <Output TaskParameter="Exists" PropertyName="AdaptorExists" />
        <Message Text="WCF-SQL Exists: $(AdaptorExists)" />
      <!-- Create an Adaptor -->
        <Output TaskParameter="Exists" PropertyName="AdaptorExists" />
        <Output TaskParameter="Comment" PropertyName="AdaptorComment" />
        <Message Text="WCF-SQL Exists: $(AdaptorExists)" />
        <Message Text="WCF-SQL Comment: $(AdaptorComment)" />
    <!-- Check an Adaptor Exists -->
      <Output TaskParameter="Exists" PropertyName="AdaptorExists" />
      <Output TaskParameter="Comment" PropertyName="AdaptorComment" />
      <Message Text="WCF-SQL Exists: $(AdaptorExists)" />
      <Message Text="WCF-SQL Comment: $(AdaptorComment)" />
  </Target>
</Project>
```
See Also

Reference

MSBuild.ExtensionPack.BizTalk Namespace

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BizTalkAdaptor Constructor


See Also

BizTalkAdaptor Class
MSBuild.ExtensionPack.BizTalk Namespace
The **BizTalkAdaptor** type exposes the following members.

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AdaptorName</strong></td>
<td>Sets the Adaptor Name.</td>
</tr>
<tr>
<td><strong>Comment</strong></td>
<td>Sets the Adaptor comment.</td>
</tr>
<tr>
<td><strong>Constraints</strong></td>
<td>Sets the Constraints</td>
</tr>
<tr>
<td><strong>Database</strong></td>
<td>Sets the Management Database to connect to. Default is BizTalkMgmtDb</td>
</tr>
<tr>
<td><strong>DatabaseServer</strong></td>
<td>Sets the DatabaseServer to connect to. Default is MachineName</td>
</tr>
<tr>
<td><strong>Exists</strong></td>
<td>Gets whether the Adaptor exists.</td>
</tr>
<tr>
<td><strong>MgmtCLSID</strong></td>
<td>Sets the MgmtCLSID guid</td>
</tr>
</tbody>
</table>

**See Also**

**Reference**

- BizTalkAdaptor Class
- MSBuild.ExtensionPack.BizTalk Namespace

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**BizTalkAdaptorAdaptorName**  
MSBuild Extension Pack Help  
4.0.12.0

Sets the Adaptor Name.

**Namespace:** MSBuild.ExtensionPack.BizTalk  

**See Also**

Reference

BizTalkAdaptor Class  
MSBuild.ExtensionPack.BizTalk Namespace

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**BizTalkAdaptorComment Property**

Sets the Adaptor comment.

**Namespace:** MSBuild.ExtensionPack.BizTalk  

**See Also**

**Reference**

- BizTalkAdaptor Class
- MSBuild.ExtensionPack.BizTalk Namespace

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**BizTalkAdaptorConstraints Property**

Sets the Constraints

**Namespace:** MSBuild.ExtensionPack.BizTalk  

**See Also**

Reference  
BizTalkAdaptor Class  
MSBuild.ExtensionPack.BizTalk Namespace

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BizTalkAdaptorDatabase Property

Sets the Management Database to connect to. Default is BizTalkMgmtDb


See Also

BizTalkAdaptor Class
MSBuild.ExtensionPack.BizTalk Namespace
**BizTalkAdaptorDatabaseServer Property**

Sets the DatabaseServer to connect to. Default is MachineName

**Namespace:** MSBuild.ExtensionPack.BizTalk  

**See Also**

Reference

BizTalkAdaptor Class
MSBuild.ExtensionPack.BizTalk Namespace

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**BizTalkAdaptorExists**

**Property**

Gets whether the Adaptor exists

**Namespace:** MSBuild.ExtensionPack.BizTalk


### See Also

**Reference**

BizTalkAdaptor Class

MSBuild.ExtensionPack.BizTalk Namespace
**BizTalkAdaptorMgmtCLSID Property**

Sets the MgmtCLSID guid

**Namespace:** MSBuild.ExtensionPack.BizTalk  

**See Also**

Reference

* BizTalkAdaptor Class
* MSBuild.ExtensionPack.BizTalk Namespace

---

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Valid TaskActions are:

AddReference (Required: Application, References Optional: MachineName, DatabaseServer, Database)

CheckExists (Required: Application Optional: MachineName, DatabaseServer, Database)

Create (Required: Applications Optional: MachineName, DatabaseServer, Database)

Delete (Required: Applications Optional: MachineName, DatabaseServer, Database)

DisableAllReceiveLocations (Required: Applications Optional: MachineName, DatabaseServer, Database)

EnableAllReceiveLocations (Required: Applications Optional: MachineName, DatabaseServer, Database)

DisableReceiveLocations (Required: Applications, ReceiveLocations Optional: MachineName, DatabaseServer, Database)

EnableReceiveLocations (Required: Applications, ReceiveLocations Optional: MachineName, DatabaseServer, Database)

ExportBindings (Required: BindingFile Optional: Application, MachineName, DatabaseServer, Database)

ExportToMsi (Required: Application, MsiPath Optional: MachineName, DatabaseServer, Database, IncludeGlobalPartyBinding, Resources)

ImportBindings (Required: BindingFile Optional: Application, MachineName, DatabaseServer, Database)

ImportFromMsi (Required: MsiPath Optional: MachineName, DatabaseServer, Database, Application, Overwrite)

Get (Optional: MachineName, DatabaseServer, Database)

RemoveReference (Required: Application, References Optional: MachineName, DatabaseServer, Database)
StartAll (Required: Applications Optional: MachineName, DatabaseServer, Database)

StartAllOrchestrations (Required: Applications Optional: MachineName, DatabaseServer, Database)

StartAllSendPortGroups (Required: Applications Optional: MachineName, DatabaseServer, Database)

StartAllSendPorts (Required: Applications Optional: MachineName, DatabaseServer, Database)

StartReferencedApplications (Required: Applications Optional: MachineName, DatabaseServer, Database)

StopAll (Required: Applications Optional: MachineName, DatabaseServer, Database)

StopReferencedApplications (Required: Applications Optional: MachineName, DatabaseServer, Database)

UndeployAllPolicies (Required: Applications Optional: MachineName, DatabaseServer, Database)

UnenlistAllOrchestrations (Required: Applications Optional: MachineName, DatabaseServer, Database)

UnenlistAllSendPortGroups (Required: Applications Optional: MachineName, DatabaseServer, Database)

UnenlistAllSendPorts (Required: Applications Optional: MachineName, DatabaseServer, Database)

Remote Execution Support: Yes

Inheritance Hierarchy

SystemObject  Microsoft.Build.UtilitiesTask
    MSBuild.ExtensionPackBaseTask
        MSBuild.ExtensionPack.BizTalkBizTalkApplication

The **BizTalkApplication** type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BizTalkApplication</td>
<td></td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application</td>
<td>Sets the Application Name</td>
</tr>
<tr>
<td>Applications</td>
<td>Get or sets the Application Item Collection</td>
</tr>
<tr>
<td>BindingFile</td>
<td>The Binding File to Import / Export</td>
</tr>
<tr>
<td>Database</td>
<td>Sets the Management Database to connect to. Default is BizTalkMgmtDb</td>
</tr>
<tr>
<td>DatabaseServer</td>
<td>Sets the DatabaseServer to connect to. Default is MachineName</td>
</tr>
<tr>
<td>Default</td>
<td>Sets whether the Application is the default application</td>
</tr>
<tr>
<td>Description</td>
<td>Sets the Application description</td>
</tr>
<tr>
<td>Environment</td>
<td>The environment to deploy.</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the Application exists</td>
</tr>
<tr>
<td>Force</td>
<td>Set to true to delete an existing Application when Create is called.</td>
</tr>
<tr>
<td>IncludeGlobalPartyBinding</td>
<td>Set to true to export the global party information. Default is false.</td>
</tr>
<tr>
<td>MsiPath</td>
<td>Set the path to export the Application MSI to. The directory path must exist and have appropriate permissions to write to.</td>
</tr>
<tr>
<td>Overwrite</td>
<td>Update existing resources. If not specified and resource exists, import will fail. Default is false.</td>
</tr>
<tr>
<td>ReceiveLocations</td>
<td>sets the ReceiveLocations to operate on.</td>
</tr>
<tr>
<td>References</td>
<td>Sets the Referenced Applications</td>
</tr>
<tr>
<td>Resources</td>
<td>Sets the Resources to export. If not supplied, all resources are exported.</td>
</tr>
</tbody>
</table>
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks')" />
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <ItemGroup>
      <Apps Include="An Application"/>
      <NewApps Include="NewExtensionPackApp">
        <!--Default>true</Default>-->
        <Description>New ExtensionPack App</Description>
      </NewApps>
      <Reference Include="Another Application"/>
    </ItemGroup>
  </Target>
  <!-- Get a list of BizTalk Applications -->
    <Output TaskParameter="Applications" ItemName="ApplicationList"/>
  <!-- Add a Reference -->
  <!-- Remove a Reference -->
  <!-- Export an Application to an MSI -->
  <!-- Import an Application from an MSI -->
  <!-- Check if the Applications in the Apps collection exist -->
  <!-- Execute a StartAll on the Apps Application -->
  <!-- Execute a StopAll on the Apps Application -->
  <!-- Force the creation of the Applications -->
</Project>
<!-- Delete the Applications in the NewApps
<!-- Imports the specified bindings file into
<!-- Exports a BizTalk application bindings
</Target>
<!-- Export an Application to a partial/incremental
<Target Name="ExportToMsi">
<MSBuild Projects="@(Compile)" Targets="Build"
<Output TaskParameter="Target Outputs" ItemName
</MSBuild>
<Output TaskParameter="Output Items" ItemName
<ItemGroup>
<Resources Include="@(NetAssemblies->'%(FullName)')"
<Resources Include="Application/$(BtsApplicationName)"
</ItemGroup>
</Target>
</Project>
</Project>

See Also

Reference
MSBuild.ExtensionPack.BizTalk Namespace

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BizTalkApplication Constructor

**Namespace:** MSBuild.ExtensionPack.BizTalk
**Assembly:** MSBuild.ExtensionPack.BizTalk (in MSBuild.ExtensionPack.BizTalk.dll) **Version:** 4.0.0.0

**See Also**

Reference

- BizTalkApplication Class
- MSBuild.ExtensionPack.BizTalk Namespace

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The **BizTalkApplication** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application</td>
<td>Sets the Application Name</td>
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<tr>
<td>Applications</td>
<td>Get or sets the Application Item Collection</td>
</tr>
<tr>
<td>BindingFile</td>
<td>The Binding File to Import / Export</td>
</tr>
<tr>
<td>Database</td>
<td>Sets the Management Database to connect to. Default is BizTalkMgmtDb</td>
</tr>
<tr>
<td>DatabaseServer</td>
<td>Sets the DatabaseServer to connect to. Default is MachineName</td>
</tr>
<tr>
<td>Default</td>
<td>Sets whether the Application is the default application</td>
</tr>
<tr>
<td>Description</td>
<td>Sets the Application description</td>
</tr>
<tr>
<td>Environment</td>
<td>The environment to deploy.</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the Application exists</td>
</tr>
<tr>
<td>Force</td>
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<tr>
<td>Overwrite</td>
<td>Update existing resources. If not specified and resource exists, import will fail. Default is false.</td>
</tr>
<tr>
<td>ReceiveLocations</td>
<td>sets the ReceiveLocations to operate on.</td>
</tr>
<tr>
<td>References</td>
<td>Sets the Referenced Applications</td>
</tr>
<tr>
<td>Resources</td>
<td>Sets the Resources to export. If not supplied, all resources are exported.</td>
</tr>
</tbody>
</table>

**See Also**
BizTalkApplication Application Property

Sets the Application Name


See Also

Reference
BizTalkApplication Class
MSBuild.ExtensionPack.BizTalk Namespace

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BizTalkApplicationApplications Property

Get or sets the Application Item Collection


See Also

Reference
BizTalkApplication Class
MSBuild.ExtensionPack.BizTalk Namespace

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**BizTalkApplicationBindingFile**  MSBuild Extension Pack Help

**Property**

The Binding File to Import / Export

**Namespace:**  MSBuild.ExtensionPack.BizTalk


**See Also**

Reference

BizTalkApplication Class

MSBuild.ExtensionPack.BizTalk Namespace

---

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BizTalkApplicationDatabase Property

Sets the Management Database to connect to. Default is BizTalkMgmtDb

**Namespace:** MSBuild.ExtensionPack.BizTalk  

### See Also

**Reference**  
BizTalkApplication Class  
MSBuild.ExtensionPack.BizTalk Namespace

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**BizTalkApplicationDatabaseServer**

Sets the DatabaseServer to connect to. Default is MachineName

**Namespace:** MSBuild.ExtensionPack.BizTalk  

**See Also**

Reference

BizTalkApplication Class  
MSBuild.ExtensionPack.BizTalk Namespace

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**BizTalkApplicationDefault Property**

Sets whether the Application is the default application

**Namespace:** MSBuild.ExtensionPack.BizTalk  

---

**See Also**

Reference

BizTalkApplication Class  
MSBuild.ExtensionPack.BizTalk Namespace

---

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**BizTalkApplicationDescription**  MSBuild Extension Pack Help

**Property**

Sets the Application description

**Namespace:**  MSBuild.ExtensionPack.BizTalk

**See Also**

**Reference**

BizTalkApplication Class
MSBuild.ExtensionPack.BizTalk Namespace

---

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BizTalkApplicationEnvironment Property

The environment to deploy.

**Namespace:** MSBuild.ExtensionPack.BizTalk


See Also

Reference

- BizTalkApplication Class
- MSBuild.ExtensionPack.BizTalk Namespace

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BizTalkApplicationExists Property

Gets whether the Application exists

**Namespace:** MSBuild.ExtensionPack.BizTalk

**See Also**

Reference
- BizTalkApplication Class
- MSBuild.ExtensionPack.BizTalk Namespace
**BizTalkApplicationForce**

Property

Set to true to delete an existing Application when Create is called.

**Namespace:** MSBuild.ExtensionPack.BizTalk  

**See Also**

Reference

BizTalkApplication Class
MSBuild_EXTENSIONPACK.BizTalk Namespace

---

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**BizTalkApplicationIncludeGlobalPartyBinding** Property

Set to true to export the global party information. Default is false.

**Namespace:** MSBuild.ExtensionPack.BizTalk  
**Version:** 4.0.0.0

**See Also**

- BizTalkApplication Class  
- MSBuild.ExtensionPack.BizTalk Namespace

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**BizTalkApplicationMsiPath**

Property

Set the path to export the Application MSI to. The directory path must exist and have appropriate permissions to write to.

**Namespace:** MSBuild.ExtensionPack.BizTalk


---

**See Also**

**Reference**

BizTalkApplication Class

MSBuild.ExtensionPack.BizTalk Namespace

---

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**BizTalkApplicationOverwrite** Property

Update existing resources. If not specified and resource exists, import will fail. Default is false.

**Namespace:** MSBuild.ExtensionPack.BizTalk


**See Also**

Reference

BizTalkApplication Class

MSBuild.ExtensionPack.BizTalk Namespace

---

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BizTalkApplicationReceiveLocations Property

sets the ReceiveLocations to operate on.


See Also

Reference
BizTalkApplication Class
MSBuild.ExtensionPack.BizTalk Namespace

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BizTalkApplicationReferences Property

Sets the Referenced Applications


See Also

Reference
BizTalkApplication Class
MSBuild.ExtensionPack.BizTalk Namespace

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**BizTalkApplicationResources**  
Sets the Resources to export. If not supplied, all resources are exported.

**Namespace:** MSBuild.ExtensionPack.BizTalk  

### See Also
- **BizTalkApplication Class**
- **MSBuild.ExtensionPack.BizTalk Namespace**

---

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**BizTalkAssembly Class**

**Valid TaskActions are:**

*Add (Required: Application, Assemblies Optional: MachineName, DatabaseServer, DeploymentPath, Database, Gac, Force, GacOnAddResource, GacOnMSIFileImport, GacOnMSIFileInstall, DestinationLocation)*

*Remove (Required: Application, Assemblies Optional: MachineName, DatabaseServer, Database)*

*CheckExists (Required: Application, Assemblies Optional: MachineName, DatabaseServer, Database Output: Exists)*

**Remote Execution Support:** Yes

**Inheritance Hierarchy**


**Namespace:** MSBuild.ExtensionPack.BizTalk

The **BizTalkAssembly** type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BizTalkAssembly</td>
<td></td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application</td>
<td>Sets the Application Name</td>
</tr>
<tr>
<td>Assemblies</td>
<td>Sets the list of Assemblies</td>
</tr>
<tr>
<td>Property</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Database</td>
<td>Sets the Management Database to connect to. Default is BizTalkMgmtDb</td>
</tr>
<tr>
<td>DatabaseServer</td>
<td>Sets the DatabaseServer to connect to. Default is MachineName</td>
</tr>
<tr>
<td>DeploymentPath</td>
<td>Sets the deployment path for assemblies</td>
</tr>
<tr>
<td>DestinationLocation</td>
<td>Sets the DestinationLocation</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the assembly / assemblies exist in BizTalk</td>
</tr>
<tr>
<td>Force</td>
<td>Set to true to overwrite existing assemblies when deploy is called</td>
</tr>
<tr>
<td>Gac</td>
<td>Set to true to gac the biztalk assemblies. Default is true. Note that if you set GacOnMSIFileInstall to true, the assembly will also be added to the gac.</td>
</tr>
<tr>
<td>GacOnAddResource</td>
<td>Sets whether to GAC the assembly on add resource. Default is true</td>
</tr>
<tr>
<td>GacOnMsiFileImport</td>
<td>Sets whether to GAC the assembly on file import. Default is true</td>
</tr>
<tr>
<td>GacOnMsiFileInstall</td>
<td>Sets whether to GAC the assembly on file install. Default is false</td>
</tr>
</tbody>
</table>

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks')"/>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <ItemGroup>
      <BizTalkAssemblies Include="YOURASSEMBLY"/>
    </ItemGroup>
    <!-- Add the Assemblies -->
    <!-- Check an Assembly Exists -->
      <Output TaskParameter="Exists" PropertyName="AssemblyExists"/>
    <Message Text="ASSEMBLY EXISTS: $(AssemblyExists)"/>
    <!-- Remove the Assemblies -->
  </Target>
</Project>
```

See Also

Reference

MSBuild.ExtensionPack.BizTalk Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**BizTalkAssembly Constructor**

**Namespace:** MSBuild.ExtensionPack.BizTalk  
**Version:** 4.0.0.0

---

**See Also**

- BizTalkAssembly Class  
- MSBuild.ExtensionPack.BizTalk Namespace

---

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**BizTalkAssembly**

**Properties**

The *BizTalkAssembly* type exposes the following members.

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application</td>
<td>Sets the Application Name</td>
</tr>
<tr>
<td>Assemblies</td>
<td>Sets the list of Assemblies</td>
</tr>
<tr>
<td>Database</td>
<td>Sets the Management Database to connect to. Default is BizTalkMgmtDb</td>
</tr>
<tr>
<td>DatabaseServer</td>
<td>Sets the DatabaseServer to connect to. Default is MachineName</td>
</tr>
<tr>
<td>DeploymentPath</td>
<td>Sets the deployment path for assemblies</td>
</tr>
<tr>
<td>DestinationLocation</td>
<td>Sets the DestinationLocation</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the assembly / assemblies exist in BizTalk</td>
</tr>
<tr>
<td>Force</td>
<td>Set to true to overwrite existing assemblies when deploy is called</td>
</tr>
<tr>
<td>Gac</td>
<td>Set to true to gac the biztalk assemblies. Default is true. Note that if you set GacOnMSIFileInstall to true, the assembly will also be added to the gac.</td>
</tr>
<tr>
<td>GacOnAddResource</td>
<td>Sets whether to GAC the assembly on add resource. Default is true</td>
</tr>
<tr>
<td>GacOnMsiFileImport</td>
<td>Sets whether to GAC the assembly on file import. Default is true</td>
</tr>
<tr>
<td>GacOnMsiFileInstall</td>
<td>Sets whether to GAC the assembly on file install. Default is false</td>
</tr>
</tbody>
</table>

**See Also**

**Reference**

- *BizTalkAssembly Class*
- *MSBuild.ExtensionPack.BizTalk Namespace*

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Send comments on this topic to MSBuild ExtensionPack Feedback
**BizTalkAssemblyApplication Property**

Sets the Application Name

**Namespace:** MSBuild.ExtensionPack.BizTalk  

**See Also**

**Reference**  
BizTalkAssembly Class  
MSBuild.ExtensionPack.BizTalk Namespace

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**BizTalkAssemblyAssemblies**

Sets the list of Assemblies

**Namespace:** MSBuild.ExtensionPack.BizTalk


**See Also**

Reference

BizTalkAssembly Class

MSBuild.ExtensionPack.BizTalk Namespace

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BizTalkAssemblyDatabase Property

Sets the Management Database to connect to. Default is BizTalkMgmtDb


See Also

BizTalkAssembly Class
MSBuild.ExtensionPack.BizTalk Namespace

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BizTalkAssemblyDatabaseServer Property

Sets the DatabaseServer to connect to. Default is MachineName

**Namespace:** MSBuild.ExtensionPack.BizTalk  

See Also

Reference

BizTalkAssembly Class  
MSBuild.ExtensionPack.BizTalk Namespace

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BizTalkAssemblyDeploymentPath Property

Sets the deployment path for assemblies


See Also

Reference
BizTalkAssembly Class
MSBuild.ExtensionPack.BizTalk Namespace

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BizTalkAssemblyDestinationLocation Property

Sets the DestinationLocation

**Namespace:** MSBuild.ExtensionPack.BizTalk  

**See Also**

Reference

- BizTalkAssembly Class  
- MSBuild.ExtensionPack.BizTalk Namespace

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BizTalkAssemblyExists

Property

Gets whether the assembly / assemblies exist in BizTalk


See Also

Reference

BizTalkAssembly Class
MSBuild.ExtensionPack.BizTalk Namespace

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**BizTalkAssemblyForce**

Property

Set to true to overwrite existing assemblies when deploy is called

**Namespace:** MSBuild.ExtensionPack.BizTalk


---

**See Also**

Reference

BizTalkAssembly Class

MSBuild.ExtensionPack.BizTalk Namespace

---

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BizTalkAssemblyGac Property

Set to true to gac the biztalk assemblies. Default is true. Note that if you set GacOnMSIFileInstall to true, the assembly will also be added to the gac.


See Also

BizTalkAssembly Class
MSBuild.ExtensionPack.BizTalk Namespace

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**BizTalkAssemblyGacOnAddResource**

Sets whether to GAC the assembly on add resource. Default is true

**Namespace:** MSBuild.ExtensionPack.BizTalk  

### See Also

- BizTalkAssembly Class  
- MSBuild.ExtensionPack.BizTalk Namespace
**BizTalkAssemblyGacOnMsiFileImport Property**

Sets whether to GAC the assembly on file import. Default is true

**Namespace:** MSBuild.ExtensionPack.BizTalk


---

**See Also**

Reference

BizTalkAssembly Class

MSBuild.ExtensionPack.BizTalk Namespace

---

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BizTalkAssemblyGacOnMsiFileInstall Property

Sets whether to GAC the assembly on file install. Default is false

**Namespace:** MSBuild.ExtensionPack.BizTalk  

See Also

- [BizTalkAssembly Class](#)
- [MSBuild.ExtensionPack.BizTalk Namespace](#)
**BizTalkHost Class**

**Valid TaskActions are:**

*CheckExists (Required: HostName Optional: MachineName, DatabaseServer, Database Output: Exists)*

*Create (Required: HostName, WindowsGroup Optional: MachineName, DatabaseServer, Database, HostType, Use32BitHostOnly, Trusted, Tracking, Default, AdditionalHostSettings)*

*Delete (Required: HostName Optional: MachineName, DatabaseServer, Database)*

*Update (Required: HostName, WindowsGroup Optional: MachineName, Database, DatabaseServer, HostType, Use32BitHostOnly, Trusted, Tracking, Default, AdditionalHostSettings)*

**Remote Execution Support:** Yes

**Inheritance Hierarchy**

- **SystemObject**  
  - **Microsoft.Build.UtilitiesTask**  
    - **MSBuild.ExtensionPackBaseTask**  
      - **MSBuild.ExtensionPack.BizTalkBizTalkHost**

**Namespace:** MSBuild.ExtensionPack.BizTalk  
**Assembly:** MSBuild.ExtensionPack.BizTalk.dll  
**Version:** 4.0.0.0

The **BizTalkHost** type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="BizTalkHost" /></td>
<td>BizTalkHost</td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AdditionalHostSettings</td>
<td>An optional semi-colon delimited list of name value pairs to set additional</td>
</tr>
</tbody>
</table>
### Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\..\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists($(MSBuildProjectDirectory)\.\.Common\MSBuild.ExtensionPack.tasks)"/>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- Create a Host -->
    <!-- Update a Host -->
    <!-- Delete a Host -->
  </Target>
</Project>
```
**BizTalkHost Constructor**  MSBuild Extension Pack Help 4.0.12.0

**Namespace:**  MSBuild.ExtensionPack.BizTalk  
**Version:**  4.0.0.0

### See Also

Reference

- BizTalkHost Class
- MSBuild.ExtensionPack.BizTalk Namespace

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The **BizTalkHost** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Database</td>
<td>Sets the Management Database to connect to. Default is BizTalkMgmtDb</td>
</tr>
<tr>
<td>DatabaseServer</td>
<td>Sets the DatabaseServer to connect to. Default is MachineName</td>
</tr>
<tr>
<td>Default</td>
<td>Sets the host as Default. Default is false.</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the Host exists</td>
</tr>
<tr>
<td>HostName</td>
<td>Sets the Host Name. The following characters are not permitted: `~!@#$%^&amp;*()+=[{]}:&quot;</td>
</tr>
<tr>
<td>HostType</td>
<td>Sets the Host Type. Supports: InProcess, Isolated. Default is InProcess.</td>
</tr>
<tr>
<td>Tracking</td>
<td>Sets the host as Tracking. Default is false.</td>
</tr>
<tr>
<td>Trusted</td>
<td>Sets the host as Trusted. Default is false.</td>
</tr>
<tr>
<td>Use32BitHostOnly</td>
<td>Sets the Host to 32BitOnly. Default is false.</td>
</tr>
<tr>
<td>WindowsGroup</td>
<td>Set the windows group. This may be in the form domain\group</td>
</tr>
</tbody>
</table>

## See Also

* **Reference**
  * BizTalkHost Class
  * MSBuild.ExtensionPack.BizTalk Namespace

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BizTalkHostAdditionalHostSettings Property

An optional semi-colon delimited list of name value pairs to set additional Host settings, e.g. MessagePublishSampleSpaceSize=1;MessagePublishOverdriveFactor=100. For available settings, see: http://msdn.microsoft.com/en-us/library/aa560307(BTS.10).aspx


See Also

Reference
BizTalkHost Class
MSBuild.ExtensionPack.BizTalk Namespace

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BizTalkHostDatabase Property

Sets the Management Database to connect to. Default is BizTalkMgmtDb


See Also

Reference
BizTalkHost Class
MSBuild.ExtensionPack.BizTalk Namespace

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**BizTalkHostDatabaseServer Property**

Sets the DatabaseServer to connect to. Default is MachineName

**Namespace:** MSBuild.ExtensionPack.BizTalk  
**Version:** 4.0.0.0

---

**See Also**

**Reference**
- BizTalkHost Class
- MSBuild.ExtensionPack.BizTalk Namespace

---

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BizTalkHostDefault Property

Sets the host as Default. Default is false.

**Namespace:** MSBuild.ExtensionPack.BizTalk


---

**See Also**

Reference

BizTalkHost Class

MSBuild.ExtensionPack.BizTalk Namespace

---

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**BizTalkHostExists**

**Property**

Gets whether the Host exists

**Namespace:** MSBuild.ExtensionPack.BizTalk


---

**See Also**

**Reference**

BizTalkHost Class

MSBuild.ExtensionPack.BizTalk Namespace

---

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**BizTalkHostHostName**

Sets the Host Name. The following characters are not permitted: `~!@#$%^&*()+=[]{}\|\:"'<,>-`<space>

**Namespace**: MSBuild.ExtensionPack.BizTalk


**See Also**

Reference

- BizTalkHost Class
- MSBuild.ExtensionPack.BizTalk Namespace

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BizTalkHostHostType Property


**Namespace:** MSBuild.ExtensionPack.BizTalk


**See Also**

Reference

BizTalkHost Class

MSBuild.ExtensionPack.BizTalk Namespace

---

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BizTalkHostTracking Property

Sets the host as Tracking. Default is false.


See Also

Reference
BizTalkHost Class
MSBuild.ExtensionPack.BizTalk Namespace

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**BizTalkHostTrusted Property**

Sets the host as Trusted. Default is false.

**Namespace:** MSBuild.ExtensionPack.BizTalk


**See Also**

Reference

BizTalkHost Class

MSBuild.ExtensionPack.BizTalk Namespace

---

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**BizTalkHostUse32BitHostOnly**  MSBuild Extension Pack Help

**Property**

Sets the Host to 32BitOnly. Default is false.

**Namespace:** MSBuild.ExtensionPack.BizTalk


**See Also**

Reference

BizTalkHost Class

MSBuild.ExtensionPack.BizTalk Namespace

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**BizTalkHostWindowsGroup**  
Property

Set the windows group. This may be in the form domain\group

**Namespace:** MSBuild.ExtensionPack.BizTalk  
**Version:** 4.0.0.0

**See Also**

Reference  
BizTalkHost Class  
MSBuild.ExtensionPack.BizTalk Namespace

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**BizTalkHostInstance Class**

Valid TaskActions are:

*CheckExists* (Required: HostName Optional: MachineName Output: Exists, State)

*Create* (Required: HostName, AccountName, AccountPassword Optional: MachineName, Force)

*Delete* (Required: HostName Optional: MachineName)

*Get* (Optional: MachineName Output: HostInstances)

*GetState* (Required: HostName Optional: MachineName Output: State)

*Start* (Required: HostName or HostInstances Optional: MachineName)

*Stop* (Required: HostName or HostInstances Optional: MachineName)

**Remote Execution Support**: Yes

**Inheritance Hierarchy**

- SystemObject
  - Microsoft.Build.UtilitiesTask
    - MSBuild.ExtensionPackBaseTask
      - MSBuild.ExtensionPack.BizTalkBizTalkHostInstance

**Namespace**: MSBuild.ExtensionPack.BizTalk


The **BizTalkHostInstance** type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BizTalkHostInstance</td>
<td></td>
</tr>
</tbody>
</table>

**Properties**
### Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <TPath>$($(MSBuildProjectDirectory)\.\MSBuild.ExtensionPack.tasks</TPath>
  <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\..\Common\MSBuild.ExtensionPack.tasks')">
    <Import Project="$(TPath)" />
  </TPath>
  <Target Name="Default">
    <!-- Create a Host Instance -->
    <!-- Check a Host Instance exists (it should)
      <Output TaskParameter="Exists" PropertyName
      <Output TaskParameter="State" PropertyName
    <Message Text="BizTalkHostInstance Exists: ">
    <!-- Start a Host Instance -->
    <!-- Get a Host Instance state-->
  </Target>
</Project>
```
<Message Text="BizTalkHostInstance state: $(InstanceState)"
<!-- Stop a Host Instance -->
<!-- Get a Host Instance state -->
<Message Text="BizTalkHostInstance state: $(InstanceState)"
<!-- Delete a Host Instance -->
<!-- Check a Host Instance exists again (it 
<Message Text="BizTalkHostInstance Exists: $(DoesExist)"
<!-- Get a list of Host Instances -->
<Message Text="HI: %(His.Identity) - Service
<Message Text="HI: %(His.Identity) - HostTyp
<Message Text="HI: %(His.Identity) - IsDisab
<Message Text="HI: %(His.Identity) - Caption
<Message Text="HI: %(His.Identity) - Configu
<Message Text="HI: %(His.Identity) - Descrip
<Message Text="HI: %(His.Identity) - Install
<Message Text="HI: %(His.Identity) - MgmtDbN
<Message Text="HI: %(His.Identity) - MgmtDbS
<Message Text="HI: %(His.Identity) - Running
<Message Text="HI: %(His.Identity) - Status:
<Message Text="HI: %(His.Identity) - UniqueI
<Message Text="HI: %(His.Identity) - NTGroup
</Target>
</Project>

See Also
# BizTalkHostInstance Constructor

**Namespace:** [MSBuild.ExtensionPack.BizTalk](#)  
**Version:** 4.0.0.0

---

## See Also

**Reference**  
- [BizTalkHostInstance Class](#)  
- [MSBuild.ExtensionPack.BizTalk Namespace](#)

---

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The BizTalkHostInstance type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccountName</td>
<td>The logon account to use for the Host Instance</td>
</tr>
<tr>
<td>AccountPassword</td>
<td>The logon password to use for the Host Instance</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the host instance exists</td>
</tr>
<tr>
<td>Force</td>
<td>Set to true to delete an existing host instance when Create is called.</td>
</tr>
<tr>
<td>HostInstances</td>
<td>The Host Instances returned by Get. The name of the Host Instance is used as the Identity. Metadata includes: Caption, ConfigurationState, Description, HostType, InstallDate, IsDisabled, MgmtDbNameOverride, MgmtDbServerOverride, NTGroupName, RunningServer, ServiceState, Status, UniqueID. HostInstances may also be used to Stop or Start a group of HostInstances in parallel.</td>
</tr>
<tr>
<td>HostName</td>
<td>The parent hostname for the host instance</td>
</tr>
<tr>
<td>State</td>
<td>Gets the state of the host instance</td>
</tr>
</tbody>
</table>

## Top

## See Also

**Reference**

BizTalkHostInstance Class

MSBuild.ExtensionPack.BizTalk Namespace
BizTalkHostInstanceAccountName Property

The logon account to use for the Host Instance


See Also

Reference
BizTalkHostInstance Class
MSBuild.ExtensionPack.BizTalk Namespace

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**BizTalkHostInstanceAccountPassword**

The logon password to use for the Host Instance

**Namespace:** MSBuild.ExtensionPack.BizTalk  

**See Also**

Reference

BizTalkHostInstance Class  
MSBuild.ExtensionPack.BizTalk Namespace

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**BizTalkHostInstanceExists Property**

Gets whether the host instance exists

**Namespace:** MSBuild.ExtensionPack.BizTalk


**See Also**

**Reference**

BizTalkHostInstance Class

MSBuild.ExtensionPack.BizTalk Namespace

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**BizTalkHostInstanceForce Property**

Set to true to delete an existing host instance when Create is called.

**Namespace:** MSBuild.ExtensionPack.BizTalk  

**See Also**

- BizTalkHostInstance Class  
- MSBuild.ExtensionPack.BizTalk Namespace

---

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**BizTalkHostInstanceHostInstances**  MSBuild Extension Pack Help 4.0.12.0

The Host Instances returned by Get. The name of the Host Instance is used as the Identity. Metadata includes: Caption, ConfigurationState, Description, HostType, InstallDate, IsDisabled, MgmtDbNameOverride, MgmtDbServerOverride, NTGroupName, RunningServer, ServiceState, Status, UniqueID. HostInstances may also be used to Stop or Start a group of HostInstances in parallel.

**Namespace:** MSBuild.ExtensionPack.BizTalk

**See Also**

Reference
- BizTalkHostInstance Class
- MSBuild.ExtensionPack.BizTalk Namespace

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**BizTalkHostInstanceHostName Property**

The parent hostname for the host instance

**Namespace:** MSBuild.ExtensionPack.BizTalk


**See Also**

Reference

BizTalkHostInstance Class
MSBuild.ExtensionPack.BizTalk Namespace
**BizTalkHostInstanceState Property**

Gets the state of the host instance

**Namespace:** MSBuild.ExtensionPack.BizTalk  
**Version:** 4.0.0.0

**See Also**

**Reference**

BizTalkHostInstance Class  
MSBuild.ExtensionPack.BizTalk Namespace

---

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**BizTalkReceiveHandler**

**Class**

**Valid TaskActions are:**

*CheckExists* (**Required**: HostName, AdapterName **Optional**: MachineName, DatabaseServer, Database **Output**: Exists)

*Create* (**Required**: HostName, AdapterName **Optional**: MachineName, DatabaseServer, Database, CustomCfg, Force)

*Delete* (**Required**: HostName, AdapterName **Optional**: MachineName, DatabaseServer, Database)

*Get* (**Optional**: HostName, AdapterName, MachineName, DatabaseServer, Database **Output**: ReceiveHandlers)

**Remote Execution Support**: Yes

**Inheritance Hierarchy**

- System.Object
- Microsoft.Build.UtilitiesTask
  - MSBuild.ExtensionPackBaseTask
    - MSBuild.ExtensionPack.BizTalk

**Namespace**: MSBuild.ExtensionPack.BizTalk

The **BizTalkReceiveHandler** type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BizTalkReceiveHandler</td>
<td></td>
</tr>
<tr>
<td><strong>CustomCfg</strong></td>
<td>Sets the CustomCfg for the ReceiveHandler. See Configuration Properties for Integrated BizTalk Adapters</td>
</tr>
<tr>
<td><strong>Database</strong></td>
<td>Sets the Management Database to connect to. Default is BizTalkMgmtDb</td>
</tr>
<tr>
<td><strong>DatabaseServer</strong></td>
<td>Sets the DatabaseServer to connect to. Default is MachineName</td>
</tr>
<tr>
<td><strong>Exists</strong></td>
<td>Gets whether the Application exists</td>
</tr>
<tr>
<td><strong>Force</strong></td>
<td>Set to true to delete an existing Receive Handler when Create is called.</td>
</tr>
<tr>
<td><strong>HostName</strong></td>
<td>Sets the Host Name. For TaskAction=&quot;Get&quot;, a regular expression may be provided</td>
</tr>
<tr>
<td><strong>ReceiveHandlers</strong></td>
<td>Gets the list of Receive Handlers. Identity is HostName. Metadata includes AdapterName, MgmtDbNameOverride, MgmtDbServerOverride, CustomCfg, Description, Caption.</td>
</tr>
</tbody>
</table>

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"
    <PropertyGroup>
        <TPath>${(MSBuildProjectDirectory)\..\MSBuild</TPath>
        <TPath Condition="Exists($(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks)"/
    </PropertyGroup>
    <Import Project="$(TPath)"/>
    <Target Name="Default">
        <!-- Create a ReceiveHandler (note force is not used) -->
            <Output TaskParameter="Exists" PropertyName="Exists"/>
        <!-- Check a SendHandler exists (it should) -->
            <Output TaskParameter="Exists" PropertyName="Exists"/>
        <!-- Get all Receive Handlers -->
            <Output TaskParameter="ReceiveHandlers"/>
        <!-- Delete a ReceiveHandler -->
            <![CDATA[<Message Text="%(RH.Identity) - %(RH.AdapterName)"
            <Output TaskParameter="ReceiveHandlers"/>
        <!-- Check a ReceiveHandler exists (it should not be there) -->
            <Output TaskParameter="Exists" PropertyName="Exists"/>
    </Target>
```

Top
<Output TaskParameter="Exists" PropertyName="Exists"
<Message Text="BizTalkReceiveHandler Exists"
</Target>
</Project>

See Also
Reference
MSBuild.ExtensionPack.BizTalk Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
See Also

BizTalkReceiveHandler Class
MSBuild.ExtensionPack.BizTalk Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
The `BizTalkReceiveHandler` type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AdapterName</td>
<td>Sets the AdapterName</td>
</tr>
<tr>
<td>CustomCfg</td>
<td>Sets the CustomCfg for the ReceiveHandler. See <a href="#">Configuration Properties for Integrated BizTalk Adapters</a></td>
</tr>
<tr>
<td>Database</td>
<td>Sets the Management Database to connect to. Default is BizTalkMgmtDb</td>
</tr>
<tr>
<td>DatabaseServer</td>
<td>Sets the DatabaseServer to connect to. Default is MachineName</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the Application exists</td>
</tr>
<tr>
<td>Force</td>
<td>Set to true to delete an existing Receive Handler when Create is called.</td>
</tr>
<tr>
<td>HostName</td>
<td>Sets the Host Name. For TaskAction=&quot;Get&quot;, a regular expression may be provided</td>
</tr>
<tr>
<td>ReceiveHandlers</td>
<td>Gets the list of Receive Handlers. Identity is HostName. Metadata includes AdapterName, MgmtDbNameOverride, MgmtDbServerOverride, CustomCfg, Description, Caption.</td>
</tr>
</tbody>
</table>

## See Also

Reference

- BizTalkReceiveHandler Class
- MSBuild.ExtensionPack.BizTalk Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**BizTalkReceiveHandlerAdapterName**

Sets the AdapterName

**Namespace:** MSBuild.ExtensionPack.BizTalk


---

**See Also**

- BizTalkReceiveHandler Class
- MSBuild.ExtensionPack.BizTalk Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
BizTalkReceiveHandlerCustomCfg MSBuild Extension Pack Help 4.0.12.0

Property

Sets the CustomCfg for the ReceiveHandler. See Configuration Properties for Integrated BizTalk Adapters


See Also

Reference

BizTalkReceiveHandler Class
MSBuild.ExtensionPack.BizTalk Namespace

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See Also

BizTalkReceiveHandler Class
MSBuild.ExtensionPack.BizTalk Namespace
BizTalkReceiveHandlerDatabaseServer Property

Sets the DatabaseServer to connect to. Default is MachineName

*Namespace:* MSBuild.ExtensionPack.BizTalk

See Also

Reference

BizTalkReceiveHandler Class
MSBuild.ExtensionPack.BizTalk Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**BizTalkReceiveHandlerExists**

*Property*

Gets whether the Application exists

**Namespace:** MSBuild.ExtensionPack.BizTalk  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

BizTalkReceiveHandler Class  
MSBuild.ExtensionPack.BizTalk Namespace

---

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**BizTalkReceiveHandlerForce**

Set to true to delete an existing Receive Handler when Create is called.

**Namespace:** MSBuild.ExtensionPack.BizTalk  

**See Also**

Reference  
BizTalkReceiveHandler Class  
MSBuild.ExtensionPack.BizTalk Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**BizTalkReceiveHandlerHostName**  
**Property**

Sets the Host Name. For TaskAction="Get", a regular expression may be provided

**Namespace:**  MSBuild.ExtensionPack.BizTalk  
**Version:**  4.0.0.0

**See Also**

*Reference*

BizTalkReceiveHandler Class  
MSBuild.ExtensionPack.BizTalk Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**BizTalkReceiveHandler.ReceiveHandlers Property**

Gets the list of Receive Handlers. Identity is HostName. Metadata includes AdapterName, MgmtDbNameOverride, MgmtDbServerOverride, CustomCfg, Description, Caption.

**Namespace:** MSBuild.ExtensionPack.BizTalk


**See Also**

- BizTalkReceiveHandler Class
- MSBuild.ExtensionPack.BizTalk Namespace

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**BizTalkSendHandler** Class

Valid TaskActions are:

*CheckExists* *(Required: HostName, AdapterName Optional: MachineName, DatabaseServer, Database)*

*Create* *(Required: HostName, AdapterName Optional: MachineName, Default, DatabaseServer, Database, CustomCfg, Force)*

*Delete* *(Required: HostName, AdapterName Optional: MachineName, DatabaseServer, Database)*

*Get* *(Optional: HostName, AdapterName, MachineName, DatabaseServer, Database)*

Remote Execution Support: Yes

**Inheritance Hierarchy**

```
                MSBuild.ExtensionPack.BaseTask
                MSBuild.ExtensionPack.BizTalk
                BizTalkSendHandler
```


The **BizTalkSendHandler** type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BizTalkSendHandler</td>
<td></td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AdapterName</td>
<td>Sets the AdapterName</td>
</tr>
<tr>
<td>CustomCfg</td>
<td>Sets the CustomCfg for the SendHandler. See Configuration Properties for Integrated BizTalk Adapters</td>
</tr>
<tr>
<td>-----------</td>
<td>-----------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Database</td>
<td>Sets the Management Database to connect to. Default is BizTalkMgmtDb</td>
</tr>
<tr>
<td>DatabaseServer</td>
<td>Sets the DatabaseServer to connect to. Default is MachineName</td>
</tr>
<tr>
<td>Default</td>
<td>Sets the SendHanlder as Default. Default is false.</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the Application exists</td>
</tr>
<tr>
<td>Force</td>
<td>Set to true to delete an existing Send Handler when Create is called.</td>
</tr>
<tr>
<td>HostName</td>
<td>Sets the Host Name. For TaskAction=&quot;Get&quot;, a regular expression may be provided</td>
</tr>
<tr>
<td>SendHandlers</td>
<td>Gets the list of Send Handlers. Identity is HostName. Metadata includes AdapterName, MgmtDbNameOverride, MgmtDbServerOverride, CustomCfg, Description, Caption.</td>
</tr>
</tbody>
</table>

### Examples

```
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks')"/>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- Create a SendHandler (note force is true) -->
    <!-- Check a SendHandler exists (it should) -->
    <Message Text="BizTalkSendHandler Exists: $(DoesExist)"/>
    <!-- Get all Send Handlers -->
    <Output TaskParameter="SendHandlers" ItemName="SendHandlers"/>
    <Message Text="%(SH.Identity) - %(SH.AdapterName)"/>
    <!-- Delete a SendHandler -->
  </Target>
</Project>
```
<!-- Check a SendHandler exists (it shouldn't)
<Output TaskParameter="Exists" PropertyName
<Message Text="BizTalkSendHandler Exists: $
</Target>
</Project>

See Also
Reference
MSBuild.ExtensionPack.BizTalk Namespace

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**BizTalkSendHandler Constructor**

**Namespace:** MSBuild.ExtensionPack.BizTalk  

**See Also**

Reference

BizTalkSendHandler Class  
MSBuild.ExtensionPack.BizTalk Namespace

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The **BizTalkSendHandler** type exposes the following members.

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AdapterName</td>
<td>Sets the AdapterName</td>
</tr>
<tr>
<td>CustomCfg</td>
<td>Sets the CustomCfg for the SendHandler. See <a href="#">Configuration Properties for Integrated BizTalk Adapters</a></td>
</tr>
<tr>
<td>Database</td>
<td>Sets the Management Database to connect to. Default is BizTalkMgmtDb</td>
</tr>
<tr>
<td>DatabaseServer</td>
<td>Sets the DatabaseServer to connect to. Default is MachineName</td>
</tr>
<tr>
<td>Default</td>
<td>Sets the SendHanlder as Default. Default is false.</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the Application exists</td>
</tr>
<tr>
<td>Force</td>
<td>Set to true to delete an existing Send Handler when Create is called.</td>
</tr>
<tr>
<td>HostName</td>
<td>Sets the Host Name. For TaskAction=&quot;Get&quot;, a regular expression may be provided</td>
</tr>
<tr>
<td>SendHandlers</td>
<td>Gets the list of Send Handlers. Identity is HostName. Metadata includes AdapterName, MgmtDbNameOverride, MgmtDbServerOverride, CustomCfg, Description, Caption.</td>
</tr>
</tbody>
</table>

### See Also

- **BizTalkSendHandler Class**
- **MSBuild.ExtensionPack.BizTalk Namespace**

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Send comments on this topic to MSBuild ExtensionPack Feedback
BizTalkSendHandler.AdapterName Property

Sets the AdapterName

**Namespace:** MSBuild.ExtensionPack.BizTalk  

---

**See Also**

Reference

BizTalkSendHandler Class  
MSBuild.ExtensionPack.BizTalk Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
BizTalkSendHandler CustomCfg Property

Sets the CustomCfg for the SendHandler. See Configuration Properties for Integrated BizTalk Adapters

**Namespace:** MSBuild.ExtensionPack.BizTalk  
**Version:** 4.0.0.0

See Also

Reference

BizTalkSendHandler Class  
MSBuild.ExtensionPack.BizTalk Namespace

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**BizTalkSendHandlerDatabase**  
**Property**

Sets the Management Database to connect to. Default is BizTalkMgmtDb

**Namespace:**  MSBuild.ExtensionPack.BizTalk  

---

**See Also**

Reference  
BizTalkSendHandler Class  
MSBuild.ExtensionPack.BizTalk Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
BizTalkSendHandlerDatabaseServer Property

Sets the DatabaseServer to connect to. Default is MachineName

**Namespace:** MSBuild.ExtensionPack.BizTalk


**See Also**

**Reference**

BizTalkSendHandler Class

MSBuild.ExtensionPack.BizTalk Namespace
**BizTalkSendHandlerDefault Property**

Sets the SendHandler as Default. Default is false.

**Namespace:** MSBuild.ExtensionPack.BizTalk  

**See Also**

Reference

- BizTalkSendHandler Class
- MSBuild.ExtensionPack.BizTalk Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
BizTalkSendHandlerExists Property

Gets whether the Application exists

**Namespace:** MSBuild.ExtensionPack.BizTalk


See Also

**Reference**

BizTalkSendHandler Class

MSBuild.ExtensionPack.BizTalk Namespace

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**BizTalkSendHandlerForce**

Set to true to delete an existing Send Handler when Create is called.

**Namespace:**  MSBuild.ExtensionPack.BizTalk  

**See Also**

Reference

BizTalkSendHandler Class  
MSBuild.ExtensionPack.BizTalk Namespace

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BizTalkSendHandlerHostName

Property

Sets the Host Name. For TaskAction="Get", a regular expression may be provided


See Also

Reference

BizTalkSendHandler Class
MSBuild.ExtensionPack.BizTalk Namespace

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**BizTalkSendHandler**

**Property**

Gets the list of Send Handlers. Identity is HostName. Metadata includes AdapterName, MgmtDbNameOverride, MgmtDbServerOverride, CustomCfg, Description, Caption.

**Namespace:** MSBuild.ExtensionPack.BizTalk  

**See Also**

- BizTalkSendHandler Class  
- MSBuild.ExtensionPack.BizTalk Namespace

---

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### MSBuild.ExtensionPack.CodeQuality Namespace

#### Overview

This namespace hosts tasks that are designed to scan your code and identify code quality / consistency issues.

#### Helpful Links

- **FxCop Blog**
- **StyleCop Blog**

#### Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="FxCop" /></td>
<td>The FxCop task provides a basic wrapper over FxCopCmd.exe. See <a href="http://msdn.microsoft.com/en-gb/library/bb429449(VS.80).aspx">http://msdn.microsoft.com/en-gb/library/bb429449(VS.80).aspx</a> for more details.</td>
</tr>
</tbody>
</table>

**Valid TaskActions are:**

- **Analyze** *(Required: Project and / or Files, OutputFile Optional: DependencyDirectories, Imports, Rules, ShowSummary, UpdateProject, Verbose, UpdateProject, LogToConsole, Types, FxCopPath, ReportXsl, OutputFile, ConsoleXsl, Project, SearchGac, IgnoreInvalidTargets, Quiet, ForceOutput, AspNetOnly, IgnoreGeneratedCode, OverrideRuleVisibilities, FailOnMissingRules, SuccessFile, Dictionary, Ruleset, RulesetDirectory, References, AssemblyCompareMode **Output:** AnalysisFailed, OutputText, ExitCode)*

**Remote Execution Support:** NA

| ![NUnit](image) | Executes Test Cases using NUnit (Tested using v2.6.2) |
| ![NUnit3](image) | Executes Test Cases using NUnit (Tested using v3.0.5610.33199) |

| ![StyleCop](image) | Wraps the StyleCopConsole class to provide a mechanism for scanning files for StyleCop compliance. |

**Valid TaskActions are:**

- **Scan** *(Required: SourceFiles, SettingsFile Optional: ShowOutput, ForceFullAnalysis, CacheResults, logFile, OutputFile **Output:** Succeeded, ViolationCount, FailedFiles)*
FxCop Class


Valid TaskActions are:


Remote Execution Support: NA

Inheritance Hierarchy

SystemObject  Microsoft.Build.UtilitiesTask  
  MSBuild.ExtensionPackBaseTask  
    MSBuild.ExtensionPack.CodeQualityFxCop

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The FxCop type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🍀FxCop</td>
<td></td>
</tr>
</tbody>
</table>

Top

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🍀AnalysisFailed</td>
<td>Gets AnalysisFailed. True if FxCop logged Code Analysis errors to</td>
</tr>
<tr>
<td>Parameter</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>AspNetOnly</td>
<td>Set to true to analyze only ASP.NET-generated binaries and honor global suppressions in App_Code.dll for all assemblies under analysis. Default is false</td>
</tr>
<tr>
<td>AssemblyCompareMode</td>
<td>Set the assembly comparison mode. Supports None, StrongName, StrongNameIgnoringVersion. Default is StrongName.</td>
</tr>
<tr>
<td>ConsoleXsl</td>
<td>Sets the ConsoleXsl (/consoleXsl option)</td>
</tr>
<tr>
<td>DependencyDirectories</td>
<td>Sets the DependencyDirectories :(/directory option)</td>
</tr>
<tr>
<td>Dictionary</td>
<td>Sets the custom dictionary used by spelling rules. Default is no custom dictionary</td>
</tr>
<tr>
<td>ExitCode</td>
<td>The exit code returned from FxCop</td>
</tr>
<tr>
<td>FailOnMissingRules</td>
<td>Set to true to treat missing rules or rule sets as an error and halt execution. Default is false</td>
</tr>
<tr>
<td>Files</td>
<td>Sets the Item Collection of assemblies to analyse (/file option)</td>
</tr>
<tr>
<td>ForceOutput</td>
<td>Set to true to write output XML and project files even in the case where no violations occurred. Default is false</td>
</tr>
<tr>
<td>FxCopPath</td>
<td>Sets the path to FxCopCmd.exe. Default is [Program Files]\Microsoft FxCop 1.36\FxCopCmd.exe</td>
</tr>
<tr>
<td>IgnoreGeneratedCode</td>
<td>Set to true to suppress analysis results against generated code. Default is false</td>
</tr>
<tr>
<td>IgnoreInvalidTargets</td>
<td>Set to true to silently ignore invalid target files. Default is false</td>
</tr>
<tr>
<td>Imports</td>
<td>Sets the name of an analysis report or project file to import (/import option)</td>
</tr>
<tr>
<td>LogToConsole</td>
<td>Set to true to direct analysis output to the console (/console option). Default is true</td>
</tr>
<tr>
<td>OutputFile</td>
<td>Set the name of the file for the analysis report</td>
</tr>
<tr>
<td>OutputText</td>
<td>Gets the OutputText emitted during analysis</td>
</tr>
<tr>
<td>OverrideRuleVisibilities</td>
<td>Set to true to run all overridable rules against all targets. Default is false</td>
</tr>
<tr>
<td>Project</td>
<td>Set the name of the .fxcop project to use</td>
</tr>
<tr>
<td>Quiet</td>
<td>Set to true to suppress all console output other than the reporting implied by /console or /consolexsl. Default is false</td>
</tr>
<tr>
<td>References</td>
<td>Sets the Item Collection of assemblies to reference (/reference option)</td>
</tr>
<tr>
<td>ReportXsl</td>
<td>Sets the ReportXsl (/outXsl: option)</td>
</tr>
<tr>
<td>Rules</td>
<td>Sets the location of rule libraries to load (/rule option). Prefix the</td>
</tr>
<tr>
<td><strong>Rules path with ! to treat warnings as errors</strong></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td></td>
</tr>
<tr>
<td><strong>Ruleset</strong></td>
<td>Specifies the Rule set to be used for the analysis. It can be a file path to the rule set file or the file name of a built-in rule set. ‘+’ enables all rules in the rule set; ‘-‘ disables all rules in the rule set; ‘=’ sets rules to match the rule set and disables all rules that are not enabled in the rule set</td>
</tr>
<tr>
<td><strong>RulesetDirectory</strong></td>
<td>Specifies the directory to search for rule set files that are specified by the Ruleset switch or are included by one of the specified rule sets</td>
</tr>
<tr>
<td><strong>SearchGac</strong></td>
<td>Set to true to search the GAC for missing assembly references (/gac option). Default is false</td>
</tr>
<tr>
<td><strong>ShowSummary</strong></td>
<td>Set to true to display a summary (/summary option). Default is true</td>
</tr>
<tr>
<td><strong>SuccessFile</strong></td>
<td>Set to true to create .lastcodeanalysissucceeded file in output report directory if no build-breaking messages occur during analysis. Default is false</td>
</tr>
<tr>
<td><strong>Timeout</strong></td>
<td>Set the override timeout for analysis deadlock detection. Analysis will be aborted when analysis of a single item by a single rule exceeds the specified amount of time. Default is 0 to disable deadlock detection</td>
</tr>
<tr>
<td><strong>Types</strong></td>
<td>Specifies the types to analyze</td>
</tr>
<tr>
<td><strong>UpdateProject</strong></td>
<td>Saves the results of the analysis in the project file. This option is ignored if the /project option is not specified (/update option)</td>
</tr>
<tr>
<td><strong>Verbose</strong></td>
<td>Set to true to output verbose information during analysis (/verbose option)</td>
</tr>
</tbody>
</table>

**Top**

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists($(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks)" />
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <ItemGroup>
    <ItemGroup>
      <!-- Need to add to the dependencies because MSBuild.ExtensionPack tasks depend on StyleCop -->
    </ItemGroup>
  </ItemGroup>
  <!-- Define a bespoke set of rules to run. Prefix the Rules path with!
```
<Rules Include="C:\Program Files (x86)\Microsoft"
<Files Include="C:\Projects\MSBuildExtensionPack"
</ItemGroup>
<Target Name="Default">

<!-- Call the task using a collection of files a
  <Output TaskParameter="AnalysisFailed" Property
<Message Text="CA1 Failed: $(Result)"/>
</Target>
</Project>

See Also

Reference


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FxCop Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
FxCop Class

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The **FxCop** type exposes the following members.

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AnalysisFailed</td>
<td>Gets AnalysisFailed. True if FxCop logged Code Analysis errors to the Output file.</td>
</tr>
<tr>
<td>AspNetOnly</td>
<td>Set to true to analyze only ASP.NET-generated binaries and honor global suppressions in App_Code.dll for all assemblies under analysis. Default is false</td>
</tr>
<tr>
<td>AssemblyCompareMode</td>
<td>Set the assembly comparison mode. Supports None, StrongName, StrongNameIgnoringVersion. Default is StrongName.</td>
</tr>
<tr>
<td>ConsoleXsl</td>
<td>Sets the ConsoleXsl (/consoleXsl option)</td>
</tr>
<tr>
<td>DependencyDirectories</td>
<td>Sets the DependencyDirectories :(/directory option)</td>
</tr>
<tr>
<td>Dictionary</td>
<td>Sets the custom dictionary used by spelling rules. Default is no custom dictionary</td>
</tr>
<tr>
<td>ExitCode</td>
<td>The exit code returned from FxCop</td>
</tr>
<tr>
<td>FailOnMissingRules</td>
<td>Set to true to treat missing rules or rule sets as an error and halt execution. Default is false</td>
</tr>
<tr>
<td>Files</td>
<td>Sets the Item Collection of assemblies to analyse (/file option)</td>
</tr>
<tr>
<td>ForceOutput</td>
<td>Set to true to write output XML and project files even in the case where no violations occurred. Default is false</td>
</tr>
<tr>
<td>FxCopPath</td>
<td>Sets the path to FxCopCmd.exe. Default is [Program Files]\Microsoft FxCop 1.36\FxCopCmd.exe</td>
</tr>
<tr>
<td>IgnoreGeneratedCode</td>
<td>Set to true to suppress analysis results against generated code. Default is false</td>
</tr>
<tr>
<td>IgnoreInvalidTargets</td>
<td>Set to true to silently ignore invalid target files. Default is false</td>
</tr>
<tr>
<td>Imports</td>
<td>Sets the name of an analysis report or project file to import (/import option)</td>
</tr>
<tr>
<td>LogToConsole</td>
<td>Set to true to direct analysis output to the console (/console option). Default is true</td>
</tr>
<tr>
<td>OutputFile</td>
<td>Set the name of the file for the analysis report</td>
</tr>
<tr>
<td>OutputText</td>
<td>Gets the OutputText emitted during analysis</td>
</tr>
<tr>
<td><strong>OverrideRuleVisibilities</strong></td>
<td>Set to true to run all overridable rules against all targets. Default is false</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Project</strong></td>
<td>Set the name of the .fxcop project to use</td>
</tr>
<tr>
<td><strong>Quiet</strong></td>
<td>Set to true to suppress all console output other than the reporting implied by /console or /consolexsl. Default is false</td>
</tr>
<tr>
<td><strong>References</strong></td>
<td>Sets the Item Collection of assemblies to reference (/reference option)</td>
</tr>
<tr>
<td><strong>ReportXsl</strong></td>
<td>Sets the ReportXsl (/outXsl: option)</td>
</tr>
<tr>
<td><strong>Rules</strong></td>
<td>Sets the location of rule libraries to load (/rule option). Prefix the Rules path with ! to treat warnings as errors</td>
</tr>
<tr>
<td><strong>Ruleset</strong></td>
<td>Specifies the Rule set to be used for the analysis. It can be a file path to the rule set file or the file name of a built-in rule set. <code>+</code> enables all rules in the rule set; <code>-</code> disables all rules in the rule set; <code>=</code> sets rules to match the rule set and disables all rules that are not enabled in the rule set</td>
</tr>
<tr>
<td><strong>RulesetDirectory</strong></td>
<td>Specifies the directory to search for rule set files that are specified by the Ruleset switch or are included by one of the specified rule sets.</td>
</tr>
<tr>
<td><strong>SearchGac</strong></td>
<td>Set to true to search the GAC for missing assembly references (/gac option). Default is false</td>
</tr>
<tr>
<td><strong>ShowSummary</strong></td>
<td>Set to true to display a summary (/summary option). Default is true</td>
</tr>
<tr>
<td><strong>SuccessFile</strong></td>
<td>Set to true to create .lastcodeanalysissucceeded file in output report directory if no build-breaking messages occur during analysis. Default is false</td>
</tr>
<tr>
<td><strong>Timeout</strong></td>
<td>Set the override timeout for analysis deadlock detection. Analysis will be aborted when analysis of a single item by a single rule exceeds the specified amount of time. Default is 0 to disable deadlock detection.</td>
</tr>
<tr>
<td><strong>Types</strong></td>
<td>Specifies the types to analyze</td>
</tr>
<tr>
<td><strong>UpdateProject</strong></td>
<td>Saves the results of the analysis in the project file. This option is ignored if the /project option is not specified (/update option)</td>
</tr>
<tr>
<td><strong>Verbose</strong></td>
<td>Set to true to output verbose information during analysis (/verbose option)</td>
</tr>
</tbody>
</table>

**See Also**

Reference

FxCop Class

**FxCopAnalysisFailed**

**Property**

Gets AnalysisFailed. True if FxCop logged Code Analysis errors to the Output file.

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference
- FxCop Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
FxCopAspNetOnly Property

Set to true to analyze only ASP.NET-generated binaries and honor global suppressions in App_Code.dll for all assemblies under analysis. Default is false

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
FxCop Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**FxCopAssemblyCompareMode Property**

Set the assembly comparison mode. Supports None, StrongName, StrongNameIgnoringVersion. Default is StrongName.

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

Reference

FxCop Class  

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Send comments on this topic to MSBuild ExtensionPack Feedback
FxCopConsoleXsl

Property

Sets the ConsoleXsl (/consoleXsl option)


assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) version: 4.0.0.0

See Also

Reference

FxCop Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
FxCopDependencyDirectories Property

Sets the DependencyDirectories :/(directory option)

**Namespace**: MSBuild.ExtensionPack.CodeQuality

**Assembly**: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
FxCop Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
FxCopDictionary Property

Sets the custom dictionary used by spelling rules. Default is no custom dictionary.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
FxCop Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
FxCopExitCode Property MSBuild Extension Pack Help 4.0.12.0

The exit code returned from FxCop

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
FxCop Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
FxCopFailOnMissingRules Property

Set to true to treat missing rules or rule sets as an error and halt execution. Default is false.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
FxCop Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
FxCopFiles Property  

Sets the Item Collection of assemblies to analyse (/file option)

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
FxCop Class

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**FxCopForceOutput** Property

Set to true to write output XML and project files even in the case where no violations occurred. Default is false

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

- FxCop Class

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**FxCopFxCopPath**

**Property**

Sets the path to FxCopCmd.exe. Default is [Program Files]\Microsoft FxCop 1.36\FxCopCmd.exe

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
FxCop Class  

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Send comments on this topic to MSBuild ExtensionPack Feedback
FxCopIgnoreGeneratedCode Property

Set to true to suppress analysis results against generated code. Default is false

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
FxCop Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**FxCopIgnoreInvalidTargets Property**

Set to true to silently ignore invalid target files. Default is false

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

FxCop Class  

---

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**FxCopImports Property**  
MSBuild Extension Pack Help 4.0.12.0

Sets the name of an analysis report or project file to import (/import option)

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

FxCop Class  

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
FxCopLogToConsole Property

Set to true to direct analysis output to the console (/console option). Default is true

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
FxCop Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
FxCopOutputFile Property

Set the name of the file for the analysis report

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
FxCop Class

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**FxCopOutputText Property**

Gets the OutputText emitted during analysis

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**  
FxCop Class  

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Send comments on this topic to MSBuild ExtensionPack Feedback
FxCopOverrideRuleVisibilities  MSBuild Extension Pack Help
Property

Set to true to run all overridable rules against all targets. Default is false

**Namespace:** MSBuild.ExtensionPack.CodeQuality
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

**See Also**

Reference
- FxCop Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**FxCopProject Property**  MSBuild Extension Pack Help 4.0.12.0

Set the name of the .fxcop project to use

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

FxCop Class  

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FxCopQuiet Property

Set to true to suppress all console output other than the reporting implied by /console or /consolexsl. Default is false

**Namespace:** MSBuild.ExtensionPack.CodeQuality

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

Reference

FxCop Class


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**FxCopReferences Property**

Sets the Item Collection of assemblies to reference (/reference option)

**Namespace:** `MSBuild.ExtensionPack.CodeQuality`

**Assembly:** `MSBuild.ExtensionPack` (in `MSBuild.ExtensionPack.dll`) **Version:** 4.0.0.0

---

**See Also**

**Reference**

- FxCop Class

---

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FxCopReportXsl Property

Sets the ReportXsl (/outXsl: option)

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
FxCop Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**FxCopRules Property**

Sets the location of rule libraries to load (/rule option). Prefix the Rules path with ! to treat warnings as errors

**Namespace:** MSBuild.ExtensionPack.CodeQuality

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  Version: 4.0.0.0

---

**See Also**

**Reference**

FxCop Class


---

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**FxCopRuleset Property**  MSBuild Extension Pack Help 4.0.12.0

Specifies the Rule set to be used for the analysis. It can be a file path to the rule set file or the file name of a built-in rule set. 

- '+' enables all rules in the rule set;
- '-' disables all rules in the rule set;
- '=' sets rules to match the rule set and disables all rules that are not enabled in the rule set.

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

- **Reference**
  - FxCop Class

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See Also

References

See Also

FxCop RulesetDirectory Property

Specifies the directory to search for rule set files that are specified by the Ruleset switch or are included by one of the specified rule sets.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

FxCop Class

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**FxCopSearchGac Property**

Set to true to search the GAC for missing assembly references (/gac option). Default is false.

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

FxCop Class  

---

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Send comments on this topic to MSBuild ExtensionPack Feedback.
**FxCopShowSummary Property**

Set to true to display a summary (/summary option). Default is true

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**  
FxCop Class  

---

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FxCopSuccessFile Property

Set to true to create .lastcodeanalysissucceeded file in output report directory if no build-breaking messages occur during analysis. Default is false

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
FxCop Class

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**FxCopTimeout Property**  MSBuild Extension Pack Help 4.0.12.0

Set the override timeout for analysis deadlock detection. Analysis will be aborted when analysis of a single item by a single rule exceeds the specified amount of time. Default is 0 to disable deadlock detection.

**Namespace:** [MSBuild.ExtensionPack.CodeQuality](#)

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  **Version:** 4.0.0.0

---

**See Also**

Reference

*FxCop Class*

*MSBuild.ExtensionPack.CodeQuality Namespace*

---

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**FxCopTypes Property**  
MSBuild Extension Pack Help 4.0.12.0

Specifies the types to analyze

**Namespace:**  MSBuild.ExtensionPack.CodeQuality  
**Assembly:**  MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:**  4.0.0.0

---

**See Also**

Reference

FxCop Class  

---

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**FxCopUpdateProject**

**Property**

Saves the results of the analysis in the project file. This option is ignored if the /project option is not specified (/update option)

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

- FxCop Class

---

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**FxCopVerbose Property** MSBuild Extension Pack Help 4.0.12.0

Set to true to output verbose information during analysis (/verbose option)

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
**FxCop Class**  

---

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**NUnit Class**

Executes Test Cases using NUnit (Tested using v2.6.2)

**Inheritance Hierarchy**

```
System
  System.Object
  Microsoft.Build.UtilitiesTask
    Microsoft.Build.UtilitiesToolTask
    MSBuild.ExtensionPack.CodeQuality
    NUnit
```

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

The **NUnit** type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUnit</td>
<td></td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assemblies</td>
<td>Gets or sets the assemblies.</td>
</tr>
<tr>
<td>Configuration</td>
<td>Sets the Project configuration (e.g.: Debug) to load</td>
</tr>
<tr>
<td>Domain</td>
<td>AppDomain Usage for tests. Supports None, Single, Multiple. The default is to use multiple domains if multiple assemblies are listed on the command line. Otherwise a single domain is used.</td>
</tr>
<tr>
<td>ErrorOutputFile</td>
<td>Sets the File to receive test error output</td>
</tr>
<tr>
<td>Errors</td>
<td>Gets the Errors count</td>
</tr>
<tr>
<td>ExcludeCategory</td>
<td>Comma separated list of categories to exclude.</td>
</tr>
<tr>
<td>FailOnFailures</td>
<td>Set to true to fail the task if this.Failures &gt; 0. Helps for batching purposes. Default is false.</td>
</tr>
<tr>
<td>Failures</td>
<td>Gets the Failures count</td>
</tr>
<tr>
<td>Framework</td>
<td>Framework version to be used for tests</td>
</tr>
<tr>
<td>Property</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------</td>
<td>---------------------------------------------------------------</td>
</tr>
<tr>
<td>Ignored</td>
<td>Gets the Ignored count</td>
</tr>
<tr>
<td>IncludeCategory</td>
<td>Comma separated list of categories to include.</td>
</tr>
<tr>
<td>Inconclusive</td>
<td>Gets the Inconclusive count</td>
</tr>
<tr>
<td>Invalid</td>
<td>Gets the Invalid count</td>
</tr>
<tr>
<td>Labels</td>
<td>Label each test in stdOut. Default is false.</td>
</tr>
<tr>
<td>NoShadow</td>
<td>Disable shadow copy when running in separate domain. Default is false.</td>
</tr>
<tr>
<td>NoThread</td>
<td>Disable use of a separate thread for tests. Default is false.</td>
</tr>
<tr>
<td>NotRun</td>
<td>Gets the NotRun count</td>
</tr>
<tr>
<td>OutputFile</td>
<td>File to receive test output</td>
</tr>
<tr>
<td>OutputXmlFile</td>
<td>Sets the OutputXmlFile name</td>
</tr>
<tr>
<td>Process</td>
<td>Process model for tests. Supports Single, Separate, Multiple. Single is the Default</td>
</tr>
<tr>
<td>Run</td>
<td>Name of the test case(s), fixture(s) or namespace(s) to run</td>
</tr>
<tr>
<td>Skipped</td>
<td>Gets the Skipped count</td>
</tr>
<tr>
<td>TestTimeout</td>
<td>Set timeout for each test case in milliseconds</td>
</tr>
<tr>
<td>Total</td>
<td>Gets the Total count</td>
</tr>
<tr>
<td>Use32Bit</td>
<td>Set to true to run nunit-console-x86.exe</td>
</tr>
<tr>
<td>Version</td>
<td>The version of NUnit to run. Default is 2.6.2</td>
</tr>
</tbody>
</table>

**Top**

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('\=$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks')">false</TPath>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <PropertyGroup>
    <ToolPath>D:\Program Files (x86)\NUnit 2.5.7\bin</ToolPath>
  </PropertyGroup>
</Project>
```
<Target Name="Default">
<ItemGroup>
    <Assemblies Include="d:a\*.dll"/>
</ItemGroup>
<!-- Run an NUnit Project -->
<MSBuild.ExtensionPack.CodeQuality.NUnit Assemblies>
    <Output TaskParameter="Total" PropertyName="ResultTotal"/>
    <Output TaskParameter="NotRun" PropertyName="ResultNotRun"/>
    <Output TaskParameter="Failures" PropertyName="ResultFailures"/>
    <Output TaskParameter="Errors" PropertyName="ResultErrors"/>
    <Output TaskParameter="Inconclusive" PropertyName="ResultInconclusive"/>
    <Output TaskParameter="Ignored" PropertyName="ResultIgnored"/>
    <Output TaskParameter="Skipped" PropertyName="ResultSkipped"/>
    <Output TaskParameter="Invalid" PropertyName="ResultInvalid"/>
</MSBuild.ExtensionPack.CodeQuality.NUnit>
<Message Text="ResultTotal: $(ResultTotal)"/>
<Message Text="ResultNotRun: $(ResultNotRun)"/>
<Message Text="ResultFailures: $(ResultFailures)"/>
<Message Text="ResultErrors: $(ResultErrors)"/>
<Message Text="ResultInconclusive: $(ResultInconclusive)"/>
<Message Text="ResultIgnored: $(ResultIgnored)"/>
<Message Text="ResultSkipped: $(ResultSkipped)"/>
<Message Text="ResultInvalid: $(ResultInvalid)"/>
<!--- Run NUnit over a collection of assemblies
<MSBuild.ExtensionPack.CodeQuality.NUnit Assemblies>
    <Output TaskParameter="Total" PropertyName="ResultTotal"/>
    <Output TaskParameter="NotRun" PropertyName="ResultNotRun"/>
    <Output TaskParameter="Failures" PropertyName="ResultFailures"/>
    <Output TaskParameter="Errors" PropertyName="ResultErrors"/>
    <Output TaskParameter="Inconclusive" PropertyName="ResultInconclusive"/>
    <Output TaskParameter="Ignored" PropertyName="ResultIgnored"/>
    <Output TaskParameter="Skipped" PropertyName="ResultSkipped"/>
    <Output TaskParameter="Invalid" PropertyName="ResultInvalid"/>
</MSBuild.ExtensionPack.CodeQuality.NUnit>
<Message Text="ResultTotal: $(ResultTotal)"/>
<Message Text="ResultNotRun: $(ResultNotRun)"/>
<Message Text="ResultFailures: $(ResultFailures)"/>
<Message Text="ResultErrors: $(ResultErrors)"/>
<Message Text="ResultInconclusive: $(ResultInconclusive)"/>
<Message Text="ResultIgnored: $(ResultIgnored)"/>
<Message Text="ResultSkipped: $(ResultSkipped)"/>
<Message Text="ResultInvalid: $(ResultInvalid)"/>
</Target>
</Project>

See Also

Reference


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See Also

See Also

Reference

NUnit Class


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The NUnit type exposes the following members.

## Properties

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<td>Failures</td>
<td>Gets the Failures count</td>
</tr>
<tr>
<td>Framework</td>
<td>Framework version to be used for tests</td>
</tr>
<tr>
<td>Ignored</td>
<td>Gets the Ignored count</td>
</tr>
<tr>
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<td>Comma separated list of categories to include.</td>
</tr>
<tr>
<td>Inconclusive</td>
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</tr>
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<tr>
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<td>NoThread</td>
<td>Disable use of a separate thread for tests. Default is false.</td>
</tr>
<tr>
<td>NotRun</td>
<td>Gets the NotRun count</td>
</tr>
<tr>
<td>OutputFile</td>
<td>File to receive test output</td>
</tr>
<tr>
<td>OutputXmlFile</td>
<td>Sets the OutputXmlFile name</td>
</tr>
<tr>
<td>Process</td>
<td>Process model for tests. Supports Single, Separate, Multiple. Single is the Default</td>
</tr>
<tr>
<td><strong>Run</strong></td>
<td>Name of the test case(s), fixture(s) or namespace(s) to run</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Skipped</strong></td>
<td>Gets the Skipped count</td>
</tr>
<tr>
<td><strong>TestTimeout</strong></td>
<td>Set timeout for each test case in milliseconds</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>Gets the Total count</td>
</tr>
<tr>
<td><strong>Use32Bit</strong></td>
<td>Set to true to run nunit-console-x86.exe</td>
</tr>
<tr>
<td><strong>Version</strong></td>
<td>The version of NUnit to run. Default is 2.6.2</td>
</tr>
</tbody>
</table>

**See Also**

**Reference**

**NUnit Class**


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Send comments on this topic to MSBuild ExtensionPack Feedback
NUnitAssemblies Property

Gets or sets the assemblies.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
NUnit Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**NUnitConfiguration Property**

Sets the Project configuration (e.g.: Debug) to load

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

- NUnit Class

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**NUnitDomain Property**

AppDomain Usage for tests. Supports None, Single, Multiple. The default is to use multiple domains if multiple assemblies are listed on the command line. Otherwise a single domain is used.

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

NUnit Class  

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
NUnit Error Output File Property

Sets the File to receive test error output

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

NUnit Class

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NUnitErrors Property

Gets the Errors count

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
NUnit Class

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See Also

Reference
- NUnit Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
NUnitFailOnFailures Property

Set to true to fail the task if this.Failures > 0. Helps for batching purposes. Default is false.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
NUnit Class

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**NUnitFailures Property**

Gets the Failures count

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference
- **NUnit Class**  
- **MSBuild.ExtensionPack.CodeQuality Namespace**

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Send comments on this topic to MSBuild ExtensionPack Feedback
NUnitFramework Property

Framework version to be used for tests

**Namespace:** MSBuild.ExtensionPack.CodeQuality

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

See Also

Reference

NUnit Class


---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**NUnitIgnored Property**  MSBuild Extension Pack Help 4.0.12.0

Gets the Ignored count

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

### See Also

**Reference**

- **NUnit Class**
- **MSBuild.ExtensionPack.CodeQuality Namespace**

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
NUnitIncludeCategory Property

Comma separated list of categories to include.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
NUnit Class

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** NUnitInconclusive Property **

Gets the Inconclusive count

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

**Reference**

- NUnit Class

---

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**NUnitInvalid Property**

MSBuild Extension Pack Help 4.0.12.0

Gets the Invalid count

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

- **NUnit Class**
- **MSBuild.ExtensionPack.CodeQuality Namespace**

---

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**NUnitLabels Property**

Label each test in stdOut. Default is false.

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

- Reference
  - NUnit Class

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**NUnitNoShadow Property**

Disable shadow copy when running in separate domain. Default is false.

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference  
NUnit Class  

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**NUnitNoThread Property**

Disable use of a separate thread for tests. Default is false.

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

See Also

Reference

NUnit Class  

---

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**NUnitNotRun Property**  MSBuild Extension Pack Help 4.0.12.0

Gets the NotRun count

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

- NUnit Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**NUnitOutputFile Property**

File to receive test output

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
NUnit Class  

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**NUnitOutputXmlFile Property**

Sets the OutputXmlFile name

**Namespace:** MSBuild.ExtensionPack.CodeQuality

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

**See Also**

Reference

NUnit Class


---

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**NUnitProcess Property**

Process model for tests. Supports Single, Separate, Multiple. Single is the Default

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

**See Also**

Reference

NUnit Class  

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**NUnitRun Property**

Name of the test case(s), fixture(s) or namespace(s) to run

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

NUnit Class

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**NUnitSkipped Property**  
MSBuild Extension Pack Help 4.0.12.0

Gets the Skipped count

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

- **Reference**  
  - NUnit Class  

---

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**NUnit TestTimeout Property**

Set timeout for each test case in milliseconds

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

NUnit Class  

---

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NUnitTotal Property

Gets the Total count

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

NUnit Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**NUnitUse32Bit Property**  MSBuild Extension Pack Help 4.0.12.0

Set to true to run nunit-console-x86.exe

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference  
**NUnit Class**  

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**NUnitVersion Property**

The version of NUnit to run. Default is 2.6.2

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

### See Also

**Reference**

- NUnit Class

---

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NUnit3 Class

Executes Test Cases using NUnit (Tested using v3.0.5610.33199)

Inheritance Hierarchy

System Object  Microsoft.Build.UtilitiesTask
               Microsoft.Build.UtilitiesToolTask
               MSBuild.ExtensionPack.CodeQualityNUnit3

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The NUnit3 type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;NUnit3&gt;</td>
<td></td>
</tr>
</tbody>
</table>

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assemblies</td>
<td>Gets or sets the assemblies.</td>
</tr>
<tr>
<td>Configuration</td>
<td>Sets the Project configuration (e.g.: Debug) to load</td>
</tr>
<tr>
<td>Domain</td>
<td>DOMAIN isolation for test assemblies. Values: None, Single, Multiple. If</td>
</tr>
<tr>
<td></td>
<td>not specified, defaults to Separate for a single assembly or Multiple for</td>
</tr>
<tr>
<td></td>
<td>more than one.</td>
</tr>
<tr>
<td>ErrorOutputFile</td>
<td>Sets the File to receive test error output</td>
</tr>
<tr>
<td>Errors</td>
<td>Gets the Errors count</td>
</tr>
<tr>
<td>ExcludeCategory</td>
<td>Comma separated list of categories to exclude.</td>
</tr>
<tr>
<td>FailOnFailures</td>
<td>Set to true to fail the task if this.Failures &gt; 0. Helps for batching</td>
</tr>
<tr>
<td></td>
<td>purposes. Default is false.</td>
</tr>
<tr>
<td>Failures</td>
<td>Gets the Failures count</td>
</tr>
<tr>
<td>Framework</td>
<td>FRAMEWORK type/version to use for tests. Examples: mono, net-3.5, v4.0, 2.0,</td>
</tr>
<tr>
<td></td>
<td>mono-4.0. If not specified, tests will run under the framework</td>
</tr>
<tr>
<td>Parameters</td>
<td>Description</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Ignored</td>
<td>Gets the Ignored count</td>
</tr>
<tr>
<td>IncludeCategory</td>
<td>Comma separated list of categories to include.</td>
</tr>
<tr>
<td>Inconclusive</td>
<td>Gets the Inconclusive count</td>
</tr>
<tr>
<td>Invalid</td>
<td>Gets the Invalid count</td>
</tr>
<tr>
<td>Labels</td>
<td>Specify whether to write test case names to the output. Values: Off, On, All</td>
</tr>
<tr>
<td>NoShadow</td>
<td>Disable shadow copy when running in separate domain. Default is false.</td>
</tr>
<tr>
<td>NotRun</td>
<td>Gets the NotRun count</td>
</tr>
<tr>
<td>OutputFile</td>
<td>File to receive test output</td>
</tr>
<tr>
<td>OutputXmlFile</td>
<td>Sets the OutputXmlFile name</td>
</tr>
<tr>
<td>Process</td>
<td>PROCESS isolation for test assemblies. Values: Single, Separate, Multiple. If not specified, defaults to Separate for a single assembly or Multiple for more than one.</td>
</tr>
<tr>
<td>Skipped</td>
<td>Gets the Skipped count</td>
</tr>
<tr>
<td>TeamCity</td>
<td>Turns on use of TeamCity service messages.</td>
</tr>
<tr>
<td>Test</td>
<td>Name of the test case(s), fixture(s) or namespace(s) to run</td>
</tr>
<tr>
<td>TestTimeout</td>
<td>Set timeout for each test case in milliseconds</td>
</tr>
<tr>
<td>Total</td>
<td>Gets the Total count</td>
</tr>
<tr>
<td>Use32Bit</td>
<td>Run tests in an x86 process on 64 bit systems.</td>
</tr>
<tr>
<td>Version</td>
<td>The version of NUnit to run. Default is 3.0.5610</td>
</tr>
<tr>
<td>WorkerThreads</td>
<td>Number of worker threads to be used in running tests. If not specified, defaults to 2 or the number of processors, whichever is greater.</td>
</tr>
</tbody>
</table>

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"
(PropertyGroup>
  <TPath>$(MSBuildProjectDirectory)\.\..\MSBuild.ExtensionPack.tasks
  <TPath Condition="Exists('$(MSBuildProjectDirectory)'\..\..\Common\MSBuild.ExtensionPack.tasks')"></PropertyGroup>
```
<Import Project="$(TPath)"/>

<PropertyGroup>
    <ToolPath>D:\Program Files (x86)\NUnit 3.0.5610\</PropertyGroup>

<Target Name="Default">
    <ItemGroup>
        <Assemblies Include="d:\a\*.dll"/>
    </ItemGroup>

    <!-- Run an NUnit Project -->
    <MSBuild.ExtensionPack.CodeQuality.NUnit Assemblies>
        <Output TaskParameter="Total" PropertyName="ResultTotal"/>
        <Output TaskParameter="NotRun" PropertyName="ResultNotRun"/>
        <Output TaskParameter="Failures" PropertyName="ResultFailures"/>
        <Output TaskParameter="Errors" PropertyName="ResultErrors"/>
        <Output TaskParameter="Inconclusive" PropertyName="ResultInconclusive"/>
        <Output TaskParameter="Ignored" PropertyName="ResultIgnored"/>
        <Output TaskParameter="Skipped" PropertyName="ResultSkipped"/>
        <Output TaskParameter="Invalid" PropertyName="ResultInvalid"/>
    </MSBuild.ExtensionPack.CodeQuality.NUnit>
    <Message Text="ResultTotal: $(ResultTotal)"/>
    <Message Text="ResultNotRun: $(ResultNotRun)"/>
    <Message Text="ResultFailures: $(ResultFailures)"/>
    <Message Text="ResultErrors: $(ResultErrors)"/>
    <Message Text="ResultInconclusive: $(ResultInconclusive)"/>
    <Message Text="ResultIgnored: $(ResultIgnored)"/>
    <Message Text="ResultSkipped: $(ResultSkipped)"/>
    <Message Text="ResultInvalid: $(ResultInvalid)"/>

    <!-- Run NUnit over a collection of assemblies -->
    <MSBuild.ExtensionPack.CodeQuality.NUnit Assemblies>
        <Output TaskParameter="Total" PropertyName="ResultTotal"/>
        <Output TaskParameter="NotRun" PropertyName="ResultNotRun"/>
        <Output TaskParameter="Failures" PropertyName="ResultFailures"/>
        <Output TaskParameter="Errors" PropertyName="ResultErrors"/>
        <Output TaskParameter="Inconclusive" PropertyName="ResultInconclusive"/>
        <Output TaskParameter="Ignored" PropertyName="ResultIgnored"/>
        <Output TaskParameter="Skipped" PropertyName="ResultSkipped"/>
        <Output TaskParameter="Invalid" PropertyName="ResultInvalid"/>
    </MSBuild.ExtensionPack.CodeQuality.NUnit>
    <Message Text="ResultTotal: $(ResultTotal)"/>
<Message Text="ResultNotRun: $(ResultNotRun)"/>
<Message Text="ResultFailures: $(ResultFailures)"
<Message Text="ResultErrors: $(ResultErrors)"/>
<Message Text="ResultInconclusive: $(ResultIncon"
<Message Text="ResultIgnored: $(ResultIgnored)"/>
<Message Text="ResultSkipped: $(ResultSkipped)"/>
<Message Text="ResultInvalid: $(ResultInvalid)"/>
</Target>
</Project>

See Also

Reference


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**NUnit3 Constructor**

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference
- NUnit3 Class

---

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The **NUnit3** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>Configuration</td>
<td>Sets the Project configuration (e.g.: Debug) to load</td>
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<tr>
<td>Domain</td>
<td>DOMAIN isolation for test assemblies. Values: None, Single, Multiple. If not specified, defaults to Separate for a single assembly or Multiple for more than one.</td>
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<td>Gets the Failures count</td>
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<td>Framework</td>
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<td>Gets the Inconclusive count</td>
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<tr>
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<td>OutputFile</td>
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<td>OutputXmlFile</td>
<td>Sets the OutputXmlFile name</td>
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<td>Setting</td>
<td>Description</td>
</tr>
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<td>------------</td>
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<td>Run tests in an x86 process on 64 bit systems.</td>
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</tr>
</tbody>
</table>

**Top**

**See Also**

**Reference**

- NUnit3 Class

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**NUnitTest3Assemblies**

**Property**

Gets or sets the assemblies.

**Namespace:** `MSBuild.ExtensionPack.CodeQuality`  
**Assembly:** `MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)`  
**Version:** 4.0.0.0

---

**See Also**

- [NUnitTest3 Class](#)

---

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Send comments on this topic to [MSBuild ExtensionPack Feedback](#)
**NUnit3Configuration Property**

Sets the Project configuration (e.g.: Debug) to load

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

**NUnit3 Class**  

---

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**NUnit3 Domain Property**  MSBuild Extension Pack Help 4.0.12.0

DOMAIN isolation for test assemblies. Values: None, Single, Multiple. If not specified, defaults to Separate for a single assembly or Multiple for more than one.

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**

NUnit3 Class  

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Send comments on this topic to MSBuild ExtensionPack Feedback
**NUnit3ErrorOutputFile Property**

Sets the File to receive test error output

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

**NUnit3 Class**  

---

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**NUnit3Errors Property**

Gets the Errors count

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

NUnit3 Class  

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**NUnit3ExcludeCategory Property**

Comma separated list of categories to exclude.

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference  
NUnit3 Class  

---

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NUnit3FailOnFailures Property

Set to true to fail the task if this.Failures > 0. Helps for batching purposes. Default is false.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
NUnit3 Class

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NUnitTest3 Failures Property  MSBuild Extension Pack Help 4.0.12.0

Gets the Failures count

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  Version: 4.0.0.0

See Also

Reference
NUnitTest3 Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**NUnit3Framework Property**

FRAMEWORK type/version to use for tests. Examples: mono, net-3.5, v4.0, 2.0, mono-4.0. If not specified, tests will run under the framework they are compiled with.

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

See Also

**Reference**

- NUnit3 Class

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**NUnit3Ignored Property**  MSBuild Extension Pack Help 4.0.12.0

Gets the Ignored count

**Namespace:**  MSBuild.ExtensionPack.CodeQuality  
**Assembly:**  MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:**  4.0.0.0

---

**See Also**

**Reference**

NUnit3 Class  

---

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NUnit3IncludeCategory Property

Comma separated list of categories to include.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
NUnit3 Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
## NUnit3Inconclusive Property

Gets the Inconclusive count

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

### See Also

**Reference**

NUnit3 Class  

---

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Send comments on this topic to [MSBuild ExtensionPack Feedback](mailto:feedback@MSBuildExtensionPack.com)
**NUnit3Invalid Property**  
MSBuild Extension Pack Help 4.0.12.0

Gets the Invalid count

**Namespace:**  
MSBuild.ExtensionPack.CodeQuality

**Assembly:**  
Version:  
4.0.0.0

---

**See Also**

**Reference**

- NUnit3 Class

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**NUnit3Labels Property**  MSBuild Extension Pack Help 4.0.12.0

Specify whether to write test case names to the output. Values: Off, On, All

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

See Also

- **NUnit3 Class**

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Send comments on this topic to MSBuild ExtensionPack Feedback
**NUnit3NoShadow Property**

Disable shadow copy when running in separate domain. Default is false.

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**
- NUnit3 Class  

---

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**NUnit3NotRun Property**  MSBuild Extension Pack Help 4.0.12.0

Gets the NotRun count

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

- NUnit3 Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
NUnit3OutputFile Property

File to receive test output

**Namespace:** MSBuild.ExtensionPack.CodeQuality

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  Version: 4.0.0.0

See Also

Reference

NUnit3 Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
NUnit3OutputXmlFile Property

Sets the OutputXmlFile name

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
NUnit3 Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**NUnit3Process Property**  MSBuild Extension Pack Help 4.0.12.0

PROCESS isolation for test assemblies. Values: Single, Separate, Multiple. If not specified, defaults to Separate for a single assembly or Multiple for more than one.

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

NUnit3 Class

---

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**NUnit3Skipped Property**  MSBuild Extension Pack Help 4.0.12.0

Gets the Skipped count

**Namespace:**  MSBuild.ExtensionPack.CodeQuality  
**Assembly:**  MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:**  4.0.0.0

---

**See Also**

Reference

- **NUnit3 Class**
- **MSBuild.ExtensionPack.CodeQuality Namespace**

---

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**NUnit3TeamCity Property**

Turns on use of TeamCity service messages.

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference  
NUnit3 Class  

---

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**NUnit3 Test Property**

Name of the test case(s), fixture(s) or namespace(s) to run

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

- NUnit3 Class

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**NUnit3 Test Timeout Property**

Set timeout for each test case in milliseconds

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

- **Reference**  
  - NUnit3 Class  

---

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**NUnit3Total Property**

Gets the Total count

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

- **Reference**
  - NUnit3 Class

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**NUnit3Use32Bit Property**

Run tests in an x86 process on 64 bit systems.

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference  
NUnit3 Class  

---

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**NUnit3Version Property**

The version of NUnit to run. Default is 3.0.5610

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

- **Reference**
  - NUnit3 Class

---

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**NUnit3WorkerThreads**

**Property**

Number of worker threads to be used in running tests. If not specified, defaults to 2 or the number of processors, whichever is greater.

**Namespace:** MSBuild.ExtensionPack.CodeQuality

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

---

**See Also**

Reference

**NUnit3 Class**


---

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**StyleCop Class**

Wraps the StyleCopConsole class to provide a mechanism for scanning files for StyleCop compliance.

**Valid TaskActions are:**

*Scan* (Required: SourceFiles, SettingsFile Optional: ShowOutput, ForceFullAnalysis, CacheResults, logFile, OutputFile) Output: Succeeded, ViolationCount, FailedFiles)

**Remote Execution Support:** No

**Inheritance Hierarchy**


**Namespace:** MSBuild.ExtensionPack.CodeQuality

**Assembly:** MSBuild.ExtensionPack.StyleCop (in MSBuild.ExtensionPack.StyleCop.dll) Version: 4.0.0.0

The **StyleCop** type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>StyleCop</td>
<td></td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CacheResults</td>
<td>Sets a value indicating whether StyleCop should write cache files to disk after performing an analysis. Default is false.</td>
</tr>
<tr>
<td>FailedFiles</td>
<td>Gets the failed files collection</td>
</tr>
<tr>
<td>ForceFullAnalysis</td>
<td>Sets a value indicating whether StyleCop should ignore cached results and perform a clean analysis.</td>
</tr>
<tr>
<td>LogFile</td>
<td>Sets the log file.</td>
</tr>
</tbody>
</table>
### Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild.ExtensionPack.tasks</TPath>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- Create a collection of files to scan -->
    <CreateItem Include="C:\Demo\**\*.cs">
      <Output TaskParameter="Include" ItemName="StyleCopFiles"/>
    </CreateItem>
    <!-- Run the StyleCop MSBuild task -->
      <Output TaskParameter="Succeeded" PropertyName="Succeeded"/>
      <Output TaskParameter="ViolationCount" PropertyName="Violations"/>
      <Output TaskParameter="FailedFiles" ItemName="Failures"/>
  </Target>
</Project>
```

FailedFile format is:

```xml
<ItemGroup>
  <FailedFile Include="filename">
    <CheckId>SA Rule Number</CheckId>
    <RuleDescription>Rule Description</RuleDescription>
    <RuleName>Rule Name</RuleName>
    <LineNumber>Line the violation appears on</LineNumber>
  </FailedFile>
</ItemGroup>
```
See Also

Reference

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**StyleCop Constructor**

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack.StyleCop (in MSBuild.ExtensionPack.StyleCop.dll) Version: 4.0.0.0

**See Also**

**Reference**
- StyleCop Class

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The **StyleCop** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CacheResults</td>
<td>Sets a value indicating whether StyleCop should write cache files to disk after performing an analysis. Default is false.</td>
</tr>
<tr>
<td>FailedFiles</td>
<td>Gets the failed files collection</td>
</tr>
<tr>
<td>ForceFullAnalysis</td>
<td>Sets a value indicating whether StyleCop should ignore cached results and perform a clean analysis.</td>
</tr>
<tr>
<td>LogFile</td>
<td>Sets the log file.</td>
</tr>
<tr>
<td>OutputFile</td>
<td>Sets the path to the generated output file.</td>
</tr>
<tr>
<td>SettingsFile</td>
<td>Sets the path to the settings file to load.</td>
</tr>
<tr>
<td>ShowOutput</td>
<td>Sets a value indicating whether to ShowOutput. Default is false</td>
</tr>
<tr>
<td>SourceFiles</td>
<td>Sets the source files collection</td>
</tr>
<tr>
<td>Succeeded</td>
<td>Gets whether the scan succeeded.</td>
</tr>
<tr>
<td>ViolationCount</td>
<td>Gets the violation count.</td>
</tr>
</tbody>
</table>

## See Also

**Reference**

- **StyleCop Class**
- **MSBuild.ExtensionPack.CodeQuality Namespace**

---

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StyleCopCacheResults

Property

Sets a value indicating whether StyleCop should write cache files to disk after performing an analysis. Default is false.


See Also
Reference
StyleCop Class

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StyleCopFailedFiles Property

Gets the failed files collection


See Also

Reference
StyleCop Class

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**StyleCopForceFullAnalysis Property**

Sets a value indicating whether StyleCop should ignore cached results and perform a clean analysis.

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack.StyleCop (in MSBuild.ExtensionPack.StyleCop.dll) Version: 4.0.0.0

**See Also**

Reference
- **StyleCop Class**
- **MSBuild.ExtensionPack.CodeQuality Namespace**

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**StyleCopLogFile**

Sets the log file.

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack.StyleCop (in MSBuild.ExtensionPack.StyleCop.dll) Version: 4.0.0.0

---

**See Also**

**Reference**

*StyleCop Class*

*MSBuild.ExtensionPack.CodeQuality Namespace*

---

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**StyleCopOutputFile Property**

Sets the path to the generated output file.

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack.StyleCop (in MSBuild.ExtensionPack.StyleCop.dll) Version: 4.0.0.0

---

**See Also**

Reference  
**StyleCop Class**  

---

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**StyleCopSettingsFile Property**

Sets the path to the settings file to load.

**Namespace:** MSBuild.ExtensionPack.CodeQuality

**Assembly:** MSBuild.ExtensionPack.StyleCop (in MSBuild.ExtensionPack.StyleCop.dll) Version: 4.0.0.0

---

**See Also**

Reference

- **StyleCop Class**
- **MSBuild.ExtensionPack.CodeQuality Namespace**

---

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**StyleCopShowOutput**

Sets a value indicating whether to ShowOutput. Default is false

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack.StyleCop (in MSBuild.ExtensionPack.StyleCop.dll) Version: 4.0.0.0

---

**See Also**

**Reference**

- **StyleCop Class**
- **MSBuild.ExtensionPack.CodeQuality Namespace**

---

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StyleCopSourceFiles Property

Sets the source files collection


See Also

Reference
StyleCop Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
StyleCopSucceeded Property

Gets whether the scan succeeded.

**Namespace:** MSBuild.ExtensionPack.CodeQuality  
**Assembly:** MSBuild.ExtensionPack.StyleCop (in MSBuild.ExtensionPack.StyleCop.dll) Version: 4.0.0.0

See Also

Reference

StyleCop Class  

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StyleCopViolationCount Property

Gets the violation count.


See Also

Reference
StyleCop Class

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# MSBuild.ExtensionPack.Communication Namespace

## Overview

This namespace hosts tasks that can be used for communication.

## Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
</table>
| **Email** | **Valid TaskActions are:**  
Send *(Required: SmtpServer, MailFrom, MailTo, Subject Optional: Priority, Body, Format, Attachments, UseDefaultCredentials, UserName, UserPassword, Port, EnableSsl)*  
**Remote Execution Support:** No |
| **Ftp** | **Valid TaskActions are:**  
UploadFiles *(Required: Host, FileNames Optional: UserName, UserPassword, WorkingDirectory, RemoteDirectoryName, Port)*  
DownloadFiles *(Required: Host Optional: FileNames, UserName, UserPassword, WorkingDirectory, RemoteDirectoryName, Port)*  
DeleteFiles *(Required: Host Optional: UserName, UserPassword, WorkingDirectory, RemoteDirectoryName, Port)*  
DeleteDirectory *(Required: Host Optional: UserName, UserPassword, WorkingDirectory, RemoteDirectoryName, Port)*  
CreateDirectory *(Required: Host Optional: UserName, UserPassword, WorkingDirectory, RemoteDirectoryName, Port)*  
**Remote Execution Support:** NA |
| **MSMQ** | **Valid TaskActions are:**  
Create *(Required: Path Optional: Label, Transactional, Authenticated, MaximumQueueSize, MaximumJournalSize, UseJournalQueue, Force, Privacy )*  
CheckExists *(Required: Path Output: Exists )*  
Delete *(Required: Path Optional: )* |
<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Send</strong></td>
<td><em>(Required: Path Optional: Message, Label)</em></td>
</tr>
<tr>
<td><strong>SetPermissions</strong></td>
<td><em>(Required: Path Optional: Allow, Deny, Revoke, Set)</em></td>
</tr>
</tbody>
</table>

**Remote Execution Support:** No

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Email Class

Valid TaskActions are:

Send (Required: SmtpServer, MailFrom, MailTo, Subject Optional: Priority, Body, Format, Attachments, UseDefaultCredentials, UserName, UserPassword, Port, EnableSsl)

Remote Execution Support: No

Inheritance Hierarchy


Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The Email type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Email</td>
<td></td>
</tr>
</tbody>
</table>

Top

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attachments</td>
<td>An Item Collection of full paths of files to attach to the email.</td>
</tr>
<tr>
<td>Body</td>
<td>The body of the email.</td>
</tr>
<tr>
<td>EnableSsl</td>
<td>Sets whether to EnableSsl</td>
</tr>
<tr>
<td>Format</td>
<td>Sets the format of the email. Default is HTML</td>
</tr>
<tr>
<td>MailFrom</td>
<td>The email address to send the email from.</td>
</tr>
<tr>
<td>MailTo</td>
<td>Sets the Item Collection of email address to send the email to.</td>
</tr>
<tr>
<td>Port</td>
<td>Sets the port to use. Ignored if not specified.</td>
</tr>
<tr>
<td>Property</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Priority</td>
<td>The priority of the email. Default is Normal (also available High and Low).</td>
</tr>
<tr>
<td>SmtpServer</td>
<td>The SMTP server to use to send the email.</td>
</tr>
<tr>
<td>Subject</td>
<td>The subject of the email.</td>
</tr>
<tr>
<td>UseDefaultCredentials</td>
<td>Gets or sets a Boolean value that controls whether the DefaultCredentials are sent with requests. DefaultCredentials represents the system credentials for the current security context in which the application is running. Default is true.</td>
</tr>
<tr>
<td></td>
<td>If UserName and UserPassword is supplied, this is set to false. If UserName and UserPassword are not supplied and this is set to false then mail is sent to the server anonymously.</td>
</tr>
<tr>
<td></td>
<td>If you provide credentials for basic authentication, they are sent to the server in clear text. This can present a security issue because your credentials can be seen, and then used by others.</td>
</tr>
</tbody>
</table>

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"
      PropertyGroup>
  <TPath>$(MSBuildProjectDirectory)\.\..\MSBuild.ExtensionPack.tasks</TPath>
  <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks')" />
</PropertyGroup>
<Import Project="$(TPath)"/>
<Target Name="Default">
  <ItemGroup>
    <!-- Specify some attachments -->
    <Attachment Include="C:\demo.txt"/>
    <Attachment Include="C:\demo2.txt"/>
    <!-- Specify some recipients -->
    <Recipient Include="nospm@freet2odev.com"/>
    <Recipient Include="nospm2@freet2odev.com"/>
  </ItemGroup>
</Target>
</Project>
```
Email Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Email Class
MSBuild.ExtensionPack.Communication Namespace

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The Email type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attachments</td>
<td>An Item Collection of full paths of files to attach to the email.</td>
</tr>
<tr>
<td>Body</td>
<td>The body of the email.</td>
</tr>
<tr>
<td>EnableSsl</td>
<td>Sets whether to EnableSsl</td>
</tr>
<tr>
<td>Format</td>
<td>Sets the format of the email. Default is HTML</td>
</tr>
<tr>
<td>MailFrom</td>
<td>The email address to send the email from.</td>
</tr>
<tr>
<td>MailTo</td>
<td>Sets the Item Collection of email address to send the email to.</td>
</tr>
<tr>
<td>Port</td>
<td>Sets the port to use. Ignored if not specified.</td>
</tr>
<tr>
<td>Priority</td>
<td>The priority of the email. Default is Normal (also available High and Low).</td>
</tr>
<tr>
<td>SmtpServer</td>
<td>The SMTP server to use to send the email.</td>
</tr>
<tr>
<td>Subject</td>
<td>The subject of the email.</td>
</tr>
<tr>
<td>UseDefaultCredentials</td>
<td>Gets or sets a Boolean value that controls whether the DefaultCredentials are sent with requests. DefaultCredentials represents the system credentials for the current security context in which the application is running. Default is true. If UserName and UserPassword is supplied, this is set to false. If UserName and UserPassword are not supplied and this is set to false then mail is sent to the server anonymously. If you provide credentials for basic authentication, they are sent to the server in clear text. This can present a security issue because your credentials can be seen, and then used by others.</td>
</tr>
</tbody>
</table>
EmailAttachments Property

An Item Collection of full paths of files to attach to the email.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Email Class
MSBuild.ExtensionPack.Communication Namespace
## EmailBody Property

The body of the email.

**Namespace:** MSBuild.ExtensionPack.Communication  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

### See Also

**Reference**

Email Class  
MSBuild.ExtensionPack.Communication Namespace

---

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**EmailEnableSsl Property**  MSBuild Extension Pack Help 4.0.12.0

Sets whether to EnableSsl

**Namespace:**  MSBuild.ExtensionPack.Communication  
**Assembly:**  MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:**  4.0.0.0

**See Also**

Reference

Email Class  
MSBuild.ExtensionPack.Communication Namespace

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EmailFormat Property

Sets the format of the email. Default is HTML

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

Email Class
MSBuild.ExtensionPack.Communication Namespace

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**EmailMailFrom Property**

The email address to send the email from.

**Namespace:** MSBuild.ExtensionPack.Communication  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

### See Also

Reference

- Email Class
- MSBuild.ExtensionPack.Communication Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
EmailMailTo Property  MSBuild Extension Pack Help 4.0.12.0

Sets the Item Collection of email address to send the email to.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Email Class
MSBuild.ExtensionPack.Communication Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
EmailPort Property

Sets the port to use. Ignored if not specified.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

Email Class
MSBuild.ExtensionPack.Communication Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
EmailPriority Property

The priority of the email. Default is Normal (also available High and Low).

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Email Class
MSBuild.ExtensionPack.Communication Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
EmailSmtpServer Property

The SMTP server to use to send the email.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
- Email Class
- MSBuild.ExtensionPack.Communication Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
EmailSubject Property

The subject of the email.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Email Class
MSBuild.ExtensionPack.Communication Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
See Also

namespace: MSBuild.ExtensionPack.Communication
assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) version: 4.0.0.0

Property

EmailUseDefaultCredentials Property

Gets or sets a Boolean value that controls whether the DefaultCredentials are sent with requests. DefaultCredentials represents the system credentials for the current security context in which the application is running. Default is true.

If UserName and UserPassword is supplied, this is set to false. If UserName and UserPassword are not supplied and this is set to false then mail is sent to the server anonymously.

If you provide credentials for basic authentication, they are sent to the server in clear text. This can present a security issue because your credentials can be seen, and then used by others.

Reference

Email Class
MSBuild.ExtensionPack.Communication Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**Ftp Class**

**Valid TaskActions are:**

*UploadFiles* (Required: Host, FileNames Optional: UserName, UserPassword, WorkingDirectory, RemoteDirectoryName, Port)

*DownloadFiles* (Required: Host Optional: FileNames, UserName, UserPassword, WorkingDirectory, RemoteDirectoryName, Port)

*DeleteFiles* (Required: Host, FileNames Optional: UserName, UserPassword, WorkingDirectory, RemoteDirectoryName, Port)

*DeleteDirectory* (Required: Host Optional: UserName, UserPassword, WorkingDirectory, RemoteDirectoryName, Port)

*CreateDirectory* (Required: Host Optional: UserName, UserPassword, WorkingDirectory, RemoteDirectoryName, Port)

**Remote Execution Support:** NA

**Inheritance Hierarchy**


**Namespace:** `MSBuild.ExtensionPack.Communication`  
**Assembly:** `MSBuild.ExtensionPack` (in `MSBuild.ExtensionPack.dll`)  
**Version:** 4.0.0.0

The Ftp type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ftp</td>
<td></td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
</table>
## FileNames
The list of files that needs to be transferred over FTP

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Host</td>
<td>Sets the Host of the FTP Site.</td>
</tr>
<tr>
<td>Overwrite</td>
<td>Sets if the upload action will overwrite existing files</td>
</tr>
<tr>
<td>Port</td>
<td>The port used to connect to the ftp server.</td>
</tr>
<tr>
<td>RemoteDirectoryName</td>
<td>Sets the Remote Path to connect to the FTP Site</td>
</tr>
<tr>
<td>WorkingDirectory</td>
<td>Sets the working directory on the local machine</td>
</tr>
</tbody>
</table>

### Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath Condition="Exists($(MSBuildProjectDirectory)\..\MSBuild.ExtensionPack.tasks)">
      <!-- Specify the files to Upload -->
      <FilesToUpload Include="C:\demo.txt" />
      <FilesToUpload Include="C:\demo2.txt" />
    </ItemGroup>
  </PropertyGroup>
  <Import Project="$(TPath)" />
  <Target Name="Default">
    <ItemGroup>
      <!-- Specify the files to Download-->
      <FilesToDownload Include="demo2.txt" />
      <FilesToDownload Include="demo.txt" />
    </ItemGroup>
  </Target>
</Project>
```
## Ftp Constructor

<table>
<thead>
<tr>
<th>Reference</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Namespace</td>
<td>MSBuild.ExtensionPack.Communication</td>
<td>MSBuild Extension Pack Help 4.0.12.0</td>
</tr>
<tr>
<td>Assembly</td>
<td>MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)</td>
<td>Version: 4.0.0.0</td>
</tr>
</tbody>
</table>

### See Also

- See Also
- Ftp Class
- MSBuild.ExtensionPack.Communication Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**Ftp Properties**

The Ftp type exposes the following members.

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FileNames</td>
<td>The list of files that needs to be transferred over FTP</td>
</tr>
<tr>
<td>Host</td>
<td>Sets the Host of the FTP Site.</td>
</tr>
<tr>
<td>Overwrite</td>
<td>Sets if the upload action will overwrite existing files</td>
</tr>
<tr>
<td>Port</td>
<td>The port used to connect to the ftp server.</td>
</tr>
<tr>
<td>RemoteDirectoryName</td>
<td>Sets the Remote Path to connect to the FTP Site</td>
</tr>
<tr>
<td>WorkingDirectory</td>
<td>Sets the working directory on the local machine</td>
</tr>
</tbody>
</table>

### See Also

- **Ftp Class**
- **MSBuild.ExtensionPack.Communication Namespace**

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Send comments on this topic to MSBuild ExtensionPack Feedback
**FtpFileNames Property**

The list of files that needs to be transfered over FTP

**Namespace:** MSBuild.ExtensionPack.Communication  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

Ftp Class  
MSBuild.ExtensionPack.Communication Namespace

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**FtpHost Property**

Sets the Host of the FTP Site.

**Namespace:** MSBuild.ExtensionPack.Communication  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

Ftp Class  
MSBuild.ExtensionPack.Communication Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**FtpOverwrite Property**  
MSBuild Extension Pack Help 4.0.12.0

Sets if the upload action will overwrite existing files

**Namespace:** MSBuild.ExtensionPack.Communication  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

Reference

Ftp Class  
MSBuild.ExtensionPack.Communication Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**FtpPort Property**

The port used to connect to the ftp server.

**Namespace:** MSBuild.ExtensionPack.Communication  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference  
Ftp Class  
MSBuild.ExtensionPack.Communication Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**FtpRemoteDirectoryName Property**

Sets the Remote Path to connect to the FTP Site

**Namespace:** MSBuild.ExtensionPack.Communication  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

- Ftp Class
- MSBuild.ExtensionPack.Communication Namespace

---

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**FtpWorkingDirectory Property**

Sets the working directory on the local machine

**Namespace:** MSBuild.ExtensionPack.Communication  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

---

**See Also**

**Reference**

Ftp Class  
MSBuild.ExtensionPack.Communication Namespace

---

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MSMQ Class

Valid TaskActions are:

Create (Required: Path Optional: Label, Transactional, Authenticated, MaximumQueueSize, MaximumJournalSize, UseJournalQueue, Force, Privacy )

CheckExists (Required: Path Output: Exists )

Delete (Required: Path Optional: )

Send (Required: Path Optional: Message, Label )

SetPermissions (Required: Path Optional: Allow, Deny, Revoke, Set )

Remote Execution Support: No

Inheritance Hierarchy

SystemObject  Microsoft.Build.UtilitiesTask
   MSBuild.ExtensionPackBaseTask
      MSBuild.ExtensionPack.CommunicationMSMQ

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The MSMQ type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🌴</td>
<td>MSMQ</td>
</tr>
</tbody>
</table>

Top

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
</table>
| 🌴    | Allow
<pre><code>     | An access-allowed entry that causes the new rights to be added to any existing rights the trustee has. Permission metadata supports: DeleteMessage, PeekMessage, WriteMessage, DeleteJournalMessage, SetQueueProperties, GetQueueProperties, DeleteQueue, |
</code></pre>
<table>
<thead>
<tr>
<th>Permission</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Authenticated</td>
<td>Set to try to create an Authenticated queue. Default is false</td>
</tr>
<tr>
<td>Deny</td>
<td>An access-denied entry that denies the specified rights in addition to any currently denied rights of the trustee. Permission metadata supports: DeleteMessage, PeekMessage, WriteMessage, DeleteJournalMessage, SetQueueProperties, GetQueueProperties, DeleteQueue, GetQueuePermissions, ChangeQueuePermissions, TakeQueueOwnership, ReceiveMessage, ReceiveJournalMessage, GenericRead, GenericWrite, FullControl</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the queue exists</td>
</tr>
<tr>
<td>Force</td>
<td>Set to true to recreate a queue if it already exists</td>
</tr>
<tr>
<td>Label</td>
<td>Sets the Label of the queue</td>
</tr>
<tr>
<td>MaximumJournalSize</td>
<td>Sets the maximum journal size in kb.</td>
</tr>
<tr>
<td>MaximumQueueSize</td>
<td>Sets the maximum queue size in kb.</td>
</tr>
<tr>
<td>Message</td>
<td>Sets the Message to send to the queue</td>
</tr>
<tr>
<td>Path</td>
<td>Sets the path of the queue. Required.</td>
</tr>
<tr>
<td>Privacy</td>
<td>You can specify whether the queue accepts private (encrypted) messages, non-private (non-encrypted) messages, or both. Supports Optional (default), None, Both.</td>
</tr>
<tr>
<td>Revoke</td>
<td>An entry that removes all existing allowed or denied rights for the specified trustee. Permission metadata supports: DeleteMessage, PeekMessage, WriteMessage, DeleteJournalMessage, SetQueueProperties, GetQueueProperties, DeleteQueue, GetQueuePermissions, ChangeQueuePermissions, TakeQueueOwnership, ReceiveMessage, ReceiveJournalMessage, GenericRead, GenericWrite, FullControl</td>
</tr>
<tr>
<td>Set</td>
<td>An access-allowed entry that is similar to Allow, except that the new entry allows only the specified rights. Using it discards any existing rights, including all existing access-denied entries for the trustee. Permission metadata supports: DeleteMessage, PeekMessage, WriteMessage, DeleteJournalMessage, SetQueueProperties, GetQueueProperties, DeleteQueue, GetQueuePermissions, ChangeQueuePermissions, TakeQueueOwnership, ReceiveMessage, ReceiveJournalMessage, GenericRead, GenericWrite, FullControl</td>
</tr>
<tr>
<td>Transactional</td>
<td>Set true to create a transactional queue; false to create a non-transactional queue. Default is false;</td>
</tr>
<tr>
<td>UseJournalQueue</td>
<td>Set to true to use the journal queue</td>
</tr>
</tbody>
</table>
Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks')"/>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <ItemGroup>
      <Allow Include="TFS">
        <Permissions>DeleteMessage,ReceiveMessage</Permissions>
      </Allow>
      <Deny Include="TFS">
        <Permissions>GetQueueProperties</Permissions>
      </Deny>
    </ItemGroup>
    <!-- Create queue -->
    <!-- Check if the queue exists -->
    <!-- Delete the queue -->
    <!-- Check if the queue exists -->
    <!-- Delete the queue again to see that no error is thrown -->
    <!-- Create queue -->
    <!-- Send Message -->
  </Target>
</Project>
```
<!-- Send Message -->
<MSBuild.ExtensionPack.Communication.MSMQ Task>
<!-- Set permissions -->
<MSBuild.ExtensionPack.Communication.MSMQ Task>
</Target>
</Project>

See Also

Reference
MSBuild.ExtensionPack.Communication Namespace

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**MSMQ Constructor**

Assembly: `MSBuild.ExtensionPack` (in `MSBuild.ExtensionPack.dll`) Version: 4.0.0.0

**See Also**

Reference
- MSMQ Class
- `MSBuild.ExtensionPack.Communication Namespace`

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Send comments on this topic to MSBuild ExtensionPack Feedback
## MSMQ Properties

The **MSMQ** type exposes the following members.

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Allow</strong></td>
<td>An access-allowed entry that causes the new rights to be added to any existing rights the trustee has. Permission metadata supports: DeleteMessage, PeekMessage, WriteMessage, DeleteJournalMessage, SetQueueProperties, GetQueueProperties, DeleteQueue, GetQueuePermissions, ChangeQueuePermissions, TakeQueueOwnership, ReceiveMessage, ReceiveJournalMessage, GenericRead, GenericWrite, FullControl</td>
</tr>
<tr>
<td><strong>Authenticated</strong></td>
<td>Set to try to create an Authenticated queue. Default is false</td>
</tr>
<tr>
<td><strong>Deny</strong></td>
<td>An access-denied entry that denies the specified rights in addition to any currently denied rights of the trustee. Permission metadata supports: DeleteMessage, PeekMessage, WriteMessage, DeleteJournalMessage, SetQueueProperties, GetQueueProperties, DeleteQueue, GetQueuePermissions, ChangeQueuePermissions, TakeQueueOwnership, ReceiveMessage, ReceiveJournalMessage, GenericRead, GenericWrite, FullControl</td>
</tr>
<tr>
<td><strong>Exists</strong></td>
<td>Gets whether the queue exists</td>
</tr>
<tr>
<td><strong>Force</strong></td>
<td>Set to true to recreate a queue if it already exists</td>
</tr>
<tr>
<td><strong>Label</strong></td>
<td>Sets the Label of the queue</td>
</tr>
<tr>
<td><strong>MaximumJournalSize</strong></td>
<td>Sets the maximum journal size in kb.</td>
</tr>
<tr>
<td><strong>MaximumQueueSize</strong></td>
<td>Sets the maximum queue size in kb.</td>
</tr>
<tr>
<td><strong>Message</strong></td>
<td>Sets the Message to send to the queue</td>
</tr>
<tr>
<td><strong>Path</strong></td>
<td>Sets the path of the queue. Required.</td>
</tr>
<tr>
<td><strong>Privacy</strong></td>
<td>You can specify whether the queue accepts private (encrypted) messages, non-private (non-encrypted) messages, or both. Supports Optional (default), None, Both.</td>
</tr>
<tr>
<td><strong>Revoke</strong></td>
<td>An entry that removes all existing allowed or denied rights for the specified trustee. Permission metadata supports: DeleteMessage, PeekMessage, WriteMessage, DeleteJournalMessage, SetQueueProperties, GetQueueProperties, DeleteQueue, GetQueuePermissions, ChangeQueuePermissions, TakeQueueOwnership, ReceiveMessage, ReceiveJournalMessage, GenericRead, GenericWrite, FullControl</td>
</tr>
<tr>
<td>Set</td>
<td>An access-allowed entry that is similar to Allow, except that the new entry allows only the specified rights. Using it discards any existing rights, including all existing access-denied entries for the trustee. Permission metadata supports: DeleteMessage, PeekMessage, WriteMessage, DeleteJournalMessage, SetQueueProperties, GetQueueProperties, DeleteQueue, GetQueuePermissions, ChangeQueuePermissions, TakeQueueOwnership, ReceiveMessage, ReceiveJournalMessage, GenericRead, GenericWrite, FullControl</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Transactional</td>
<td>Set true to create a transactional queue; false to create a non-transactional queue. Default is false;</td>
</tr>
<tr>
<td>UseJournalQueue</td>
<td>Set to true to use the journal queue</td>
</tr>
</tbody>
</table>

**See Also**

**Reference**

**MSMQ Class**

**MSBuild.ExtensionPack.Communication Namespace**
**MSMQ Allow Property**

An access-allowed entry that causes the new rights to be added to any existing rights the trustee has. Permission metadata supports: DeleteMessage, PeekMessage, WriteMessage, DeleteJournalMessage, SetQueueProperties, GetQueueProperties, DeleteQueue, GetQueuePermissions, ChangeQueuePermissions, TakeQueueOwnership, ReceiveMessage, ReceiveJournalMessage, GenericRead, GenericWrite, FullControl

**Namespace:** MSBuild.ExtensionPack.Communication

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

- **Reference**
  - MSMQ Class
  - MSBuild.ExtensionPack.Communication Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**MSMQAuthenticated**

**Property**

Set to try to create an Authenticated queue. Default is false

**Namespace:** MSBuild.ExtensionPack.Communication  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**  
**MSMQ Class**  
**MSBuild.ExtensionPack.Communication Namespace**

---

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**MSMQDeny Property**  
MSBuild Extension Pack Help 4.0.12.0

An access-denied entry that denies the specified rights in addition to any currently denied rights of the trustee. Permission metadata supports: DeleteMessage, PeekMessage, WriteMessage, DeleteJournalMessage, SetQueueProperties, GetQueueProperties, DeleteQueue, GetQueuePermissions, ChangeQueuePermissions, TakeQueueOwnership, ReceiveMessage, ReceiveJournalMessage, GenericRead, GenericWrite, FullControl

**Namespace:** MSBuild.ExtensionPack.Communication  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

**Reference**

MSMQ Class  
MSBuild.ExtensionPack.Communication Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**MSMQExists Property**

Gets whether the queue exists

**Namespace:** MSBuild.ExtensionPack.Communication  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
MSMQ Class  
MSBuild.ExtensionPack.Communication Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**MSMQForce Property**

Set to true to recreate a queue if it already exists

**Namespace:** MSBuild.ExtensionPack.Communication  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

### See Also

Reference

- MSMQ Class
- MSBuild.ExtensionPack.Communication Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**MSMQLabel Property**

Sets the Label of the queue

**Namespace:** MSBuild.ExtensionPack.Communication  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

- MSMQ Class
- MSBuild.ExtensionPack.Communication Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**MSMQMaximumJournalSize** Property

Sets the maximum journal size in kb.

**Namespace:** MSBuild.ExtensionPack.Communication  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
MSMQ Class  
MSBuild.ExtensionPack.Communication Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
See Also

Reference

MSMQ Class
MSBuild.ExtensionPack.Communication Namespace
**MSMQMessage Property** MSBuild Extension Pack Help 4.0.12.0

Sets the Message to send to the queue

**Namespace:** MSBuild.ExtensionPack.Communication  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

- MSMQ Class
- MSBuild.ExtensionPack.Communication Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**MSMQPath Property**

Sets the path of the queue. Required.

**Namespace:** [MSBuild.ExtensionPack.Communication](http://www.MSBuildExtensionPack.com)

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

**Reference**

[MSMQ Class](http://www.MSBuildExtensionPack.com)

MSMQPrivacy Property  MSBuild Extension Pack Help 4.0.12.0

You can specify whether the queue accepts private (encrypted) messages, non-private (non-encrypted) messages, or both. Supports Optional (default), None, Both.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
MSMQ Class
MSBuild.ExtensionPack.Communication Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**MSMQRevoke Property**  MSBuild Extension Pack Help 4.0.12.0

An entry that removes all existing allowed or denied rights for the specified trustee. Permission metadata supports: DeleteMessage, PeekMessage, WriteMessage, DeleteJournalMessage, SetQueueProperties, GetQueueProperties, DeleteQueue, GetQueuePermissions, ChangeQueuePermissions, TakeQueueOwnership, ReceiveMessage, ReceiveJournalMessage, GenericRead, GenericWrite, FullControl

**Namespace:** MSBuild.ExtensionPack.Communication  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**

- MSMQ Class
- MSBuild.ExtensionPack.Communication Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
MSMQSet Property

An access-allowed entry that is similar to Allow, except that the new entry allows only the specified rights. Using it discards any existing rights, including all existing access-denied entries for the trustee. Permission metadata supports: DeleteMessage, PeekMessage, WriteMessage, DeleteJournalMessage, SetQueueProperties, GetQueueProperties, DeleteQueue, GetQueuePermissions, ChangeQueuePermissions, TakeQueueOwnership, ReceiveMessage, ReceiveJournalMessage, GenericRead, GenericWrite, FullControl

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

MSMQ Class
MSBuild.ExtensionPack.Communication Namespace

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MSMQ Transactional Property

Set true to create a transactional queue; false to create a non-transactional queue. Default is false;

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
MSMQ Class
MSBuild.ExtensionPack.Communication Namespace

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See Also

See Also

Reference

MSMQ Class
MSBuild.ExtensionPack.Communication Namespace

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Overview

This namespace hosts tasks that can be used to compress and work with compressed files.

Helpful Links

Microsoft Cabinet Software Development Kit
Microsoft Visual J# 2.0 Redistributable Package – Second Edition

Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
</table>
| ![Cab](image) | **Valid TaskActions are:**  
*AddFile (Required: NewFile, CabFile, CabExePath, ExtractExePath, NewFileDestination)*  
*Create (Required: PathToCab or FilesToCab, CabFile, ExePath. Optional: PreservePaths, StripPrefixes, Recursive)*  
*Extract (Required: CabFile, ExtractExePath, ExtractTo Optional: ExtractFile)*  
**Compatible with:**  
Microsoft (R) Cabinet Tool (cabarc.exe) - Version 5.2.3790.0  
Microsoft (R) CAB File Extract Utility (extrac32.exe)- Version 5.2.3790.0  
**Remote Execution Support:** No |
| ![DNZip](image) | NOTE: This task is for backwards compatibility only. You should use the Zip task rather  
**Valid TaskActions are:**  
*AddFiles (Required: ZipFileName, CompressFiles or Path Optional: CompressionLevel, MaxOutputSegmentSize, Password; RemoveRoot, UseZip64WhenSaving) Existing files will be updated*  
*Create (Required: ZipFileName, CompressFiles or Path Optional: ExtractTo)* |
<table>
<thead>
<tr>
<th>Zip</th>
<th>Valid TaskActions are:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AddFiles <strong>(Required):</strong> ZipFileName, CompressFiles or Path <strong>Optional:</strong> CompressionLevel, MaxOutputSegmentSize, Password; RemoveRoot, UseZip64WhenSaving) Existing files will be updated</td>
</tr>
<tr>
<td></td>
<td>Create <strong>(Required):</strong> ZipFileName, CompressFiles or Path <strong>Optional:</strong> CompressionLevel, MaxOutputSegmentSize, Password; RemoveRoot, UseZip64WhenSaving, PreserveAttributes)</td>
</tr>
<tr>
<td></td>
<td>Extract <strong>(Required):</strong> ZipFileName, ExtractPath <strong>Optional:</strong> Password)</td>
</tr>
<tr>
<td></td>
<td>Remote Execution Support: NA</td>
</tr>
</tbody>
</table>

This task uses http://dotnetzip.codeplex.com v1.9.1.8 for compression.

---

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**Cab Class**

**Valid TaskActions are:**

*AddFile (Required: NewFile, CabFile, CabExePath, ExtractExePath, NewFileDestination)*

*Create (Required: PathToCab or FilesToCab, CabFile, ExePath. Optional: PreservePaths, StripPrefixes, Recursive)*

*Extract (Required: CabFile, ExtractExePath, ExtractTo Optional: ExtractFile)*

**Compatible with:**

Microsoft (R) Cabinet Tool (cabarc.exe) - Version 5.2.3790.0

Microsoft (R) CAB File Extract Utility (extrac32.exe)- Version 5.2.3790.0

**Remote Execution Support:** No

**Inheritance Hierarchy**

```
SystemObject  Microsoft.Build.UtilitiesTask
                MSBuild.ExtensionPackBaseTask
             MSBuild.ExtensionPack.CompressionCab
```

**Namespace:** MSBuild.ExtensionPack.Compression

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The Cab type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cab</td>
<td></td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CabExePath</td>
<td>Sets the path to CabArc.Exe</td>
</tr>
<tr>
<td>Setting</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>CabFile</td>
<td>Sets the CAB file. Required.</td>
</tr>
<tr>
<td>ExtractExePath</td>
<td>Sets the path to extrac32.exe</td>
</tr>
<tr>
<td>ExtractFile</td>
<td>Sets the files to extract. Default is /E, which is all.</td>
</tr>
<tr>
<td>ExtractTo</td>
<td>Sets the path to extract to</td>
</tr>
<tr>
<td>FilesToCab</td>
<td>Sets the files to cab</td>
</tr>
<tr>
<td>NewFile</td>
<td>Sets the new file to add to the Cab File</td>
</tr>
<tr>
<td>NewFileDestination</td>
<td>Sets the path to add the file to</td>
</tr>
<tr>
<td>PathToCab</td>
<td>Sets the path to cab</td>
</tr>
<tr>
<td>PreservePaths</td>
<td>Sets a value indicating whether [preserve paths]</td>
</tr>
<tr>
<td>Recursive</td>
<td>Sets whether to add files and folders recursively if PathToCab is specified.</td>
</tr>
<tr>
<td>StripPrefixes</td>
<td>Sets the prefixes to strip. Delimit with ';'</td>
</tr>
</tbody>
</table>

Top

Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild\..\Common\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks')"></TPath>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <ItemGroup>
      <!-- Create a collection of files to CAB
      <Files Include="C:\ddd\**\"/>
    </ItemGroup>
    <!-- Create the CAB using the File collection
    <!-- Create the same CAB but this time based
    on MSBuild.ExtensionPack.Compression.Cab TaskA
    <!-- Add a file to the CAB -->
```
```
<MSBuild.ExtensionPack.Compression.Cab TaskA
<!-- Extract a CAB-->
<MSBuild.ExtensionPack.Compression.Cab TaskA
</Target>
</Project>
```

See Also
------
Reference

MSBuild.ExtensionPack.Compression Namespace

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Cab Constructor

Namespace: MSBuild.ExtensionPack.Compression
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Cab Class
MSBuild.ExtensionPack.Compression Namespace

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Cab Properties

The Cab type exposes the following members.

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CabExePath</td>
<td>Sets the path to CabArc.Exe</td>
</tr>
<tr>
<td>CabFile</td>
<td>Sets the CAB file. Required.</td>
</tr>
<tr>
<td>ExtractExePath</td>
<td>Sets the path to extrac32.exe</td>
</tr>
<tr>
<td>ExtractFile</td>
<td>Sets the files to extract. Default is /E, which is all.</td>
</tr>
<tr>
<td>ExtractTo</td>
<td>Sets the path to extract to</td>
</tr>
<tr>
<td>FilesToCab</td>
<td>Sets the files to cab</td>
</tr>
<tr>
<td>NewFile</td>
<td>Sets the new file to add to the Cab File</td>
</tr>
<tr>
<td>NewFileDestination</td>
<td>Sets the path to add the file to</td>
</tr>
<tr>
<td>PathToCab</td>
<td>Sets the path to cab</td>
</tr>
<tr>
<td>PreservePaths</td>
<td>Sets a value indicating whether [preserve paths]</td>
</tr>
<tr>
<td>Recursive</td>
<td>Sets whether to add files and folders recursively if PathToCab is specified.</td>
</tr>
<tr>
<td>StripPrefixes</td>
<td>Sets the prefixes to strip. Delimit with ','</td>
</tr>
</tbody>
</table>

See Also

Reference

Cab Class

MSBuild.ExtensionPack.Compression Namespace

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CabCabExePath Property

Sets the path to CabArc.Exe

**Namespace:** MSBuild.ExtensionPack.Compression  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

- Cab Class
- MSBuild.ExtensionPack.Compression Namespace

Support:

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**CabCabFile Property**

Sets the CAB file. Required.

**Namespace:** MSBuild.ExtensionPack.Compression  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
Cab Class  
MSBuild.ExtensionPack.Compression Namespace

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**CabExtractExePath**

**Property**

Sets the path to extrac32.exe

**Namespace:** MSBuild.ExtensionPack.Compression

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

---

**See Also**

**Reference**

Cab Class

MSBuild.ExtensionPack.Compression Namespace

---

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**CabExtractFile Property**  MSBuild Extension Pack Help 4.0.12.0

Sets the files to extract. Default is /E, which is all.

**Namespace:** MSBuild.ExtensionPack.Compression  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
Cab Class  
MSBuild.ExtensionPack.Compression Namespace

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**CabExtractTo Property**  MSBuild Extension Pack Help 4.0.12.0

Sets the path to extract to

**Namespace:** MSBuild.ExtensionPack.Compression  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  **Version:** 4.0.0.0  

**See Also**

Reference  
Cab Class  
MSBuild.ExtensionPack.Compression Namespace

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**CabFilesToCab Property**  MSBuild Extension Pack Help 4.0.12.0

Sets the files to cab

**Namespace:**  MSBuild.ExtensionPack.Compression  
**Assembly:**  MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:**  4.0.0.0

**See Also**

Reference  
Cab Class  
MSBuild.ExtensionPack.Compression Namespace

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**CabNewFile Property**

Sets the new file to add to the Cab File

**Namespace:** MSBuild.ExtensionPack.Compression  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference  
Cab Class  
MSBuild.ExtensionPack.Compression Namespace

---

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**CabNewFileDestination Property**

Sets the path to add the file to

**Namespace:** MSBuild.ExtensionPack.Compression  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**
- Cab Class
- MSBuild.ExtensionPack.Compression Namespace

---

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**CabPathToCab Property**  MSBuild Extension Pack Help 4.0.12.0

Sets the path to cab

**Namespace:**  MSBuild.ExtensionPack.Compression  
**Assembly:**  MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  **Version:**  4.0.0.0

---

**See Also**

Reference  
Cab Class  
MSBuild.ExtensionPack.Compression Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
CabPreservePaths Property

Sets a value indicating whether [preserve paths]

**Namespace:** MSBuild.ExtensionPack.Compression  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also

Reference

Cab Class  
MSBuild.ExtensionPack.Compression Namespace

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**CabRecursive Property**  
MSBuild Extension Pack Help 4.0.12.0

Sets whether to add files and folders recursively if PathToCab is specified.

**Namespace:** MSBuild.ExtensionPack.Compression  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

### See Also

**Reference**

- Cab Class
- MSBuild.ExtensionPack.Compression Namespace

---

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**CabStripPrefixes**

**Property**

Sets the prefixes to strip. Delimit with ';'

**Namespace:** MSBuild.ExtensionPack.Compression  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
**Cab Class**  
**MSBuild.ExtensionPack.Compression Namespace**

---

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NOTE: This task is for backwards compatibility only. You should use the Zip task rather

**Valid TaskActions are:**

* **AddFiles** *(Required: ZipFileName, CompressFiles or Path Optional: CompressionLevel, MaxOutputSegmentSize, Password; RemoveRoot, UseZip64WhenSaving) Existing files will be updated

* **Create** *(Required: ZipFileName, CompressFiles or Path Optional: CompressionLevel, MaxOutputSegmentSize, Password; RemoveRoot, UseZip64WhenSaving)

* **Extract** *(Required: ZipFileName, ExtractPath Optional: Password)

**Remote Execution Support:** NA

This task uses http://dotnetzip.codeplex.com v1.9.1.8 for compression.

**Inheritance Hierarchy**

```
SystemObject  Microsoft.Build.UtilitiesTask
   MSBuild.ExtensionPackBaseTask
      MSBuild.ExtensionPack.Compression
         DNZip
```

**Namespace:** MSBuild.ExtensionPack.Compression

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The **DNZip** type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DNZip</td>
</tr>
</tbody>
</table>

**Properties**

<p>| Name | Description |</p>
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CompressFiles</td>
<td>Sets the files to Compress</td>
</tr>
<tr>
<td>CompressionLevel</td>
<td>Sets the CompressionLevel to use. Default is Default, also supports BestSpeed and BestCompression</td>
</tr>
<tr>
<td>CompressPath</td>
<td>Sets the Path to Zip.</td>
</tr>
<tr>
<td>ExtractPath</td>
<td>Path to extract the zip file to</td>
</tr>
<tr>
<td>MaxOutputSegmentSize</td>
<td>Sets the maximum output segment size, which typically results in a split archive (an archive split into multiple files). This value is not required and if not set or set to 0 the resulting archive will not be split. For more details see the DotNetZip documentation.</td>
</tr>
<tr>
<td>Password</td>
<td>Sets the Password to be used</td>
</tr>
<tr>
<td>RemoveRoot</td>
<td>Sets the root to remove from the zip path. Note that this should be part of the file to compress path, not the target path of the ZipFileName</td>
</tr>
<tr>
<td>UseZip64WhenSaving</td>
<td>Sets the UseZip64WhenSaving output of the DotNetZip library. For more details see the DotNetZip documentation.</td>
</tr>
<tr>
<td>ZipFileName</td>
<td>Sets the name of the Zip File</td>
</tr>
</tbody>
</table>

**Top**

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\.MSBuild.ExtensionPack.tasks')">$<TPath></TPath>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default" DependsOnTargets="Sample1;Sample2">
    <!-- Set the collection of files to Zip-->
    <FilesToZip Include="C:\Patches\**\"/>
  </Target>
  <Target Name="Sample1">
    <!-- Create a zip file based on the FilesToZip collection-->
    <MSBuild.ExtensionPack.Compression.DNZip TaskAction="CompressFiles" FileList="$(FilesToZip)">
      <Option Name="CompressionLevel" Value="BestSpeed"/>
      <Option Name="CompressPath" Value="$(TPath)"/>
      <Option Name="ExtractPath" Value="$(TPath)"/>
      <Option Name="MaxOutputSegmentSize" Value="0"/>
      <Option Name="Password" Value=""
```
<!-- Extract a zip file-->  
</Target>
<Target Name="Sample2">
  <PropertyGroup>
    <SourceDirectory>MotorData</SourceDirectory>
  </PropertyGroup>
  <ItemGroup>
    <Files Include="$(SourceDirectory)" Exclude="$
      <Group>Common</Group>
    </Files>
    <Files Include="$(SourceDirectory)Cars\" Exclude="$
      <Group>Cars</Group>
    </Files>
    <Files Include="$(SourceDirectory)Trucks\" Exclude="$
      <Group>Trucks</Group>
    </Files>
  </ItemGroup>
  <!-- Create the output folder -->
  <ItemGroup>
    <OutputDirectory Include="output\"/>
  </ItemGroup>
  <MakeDir Directories="@((OutputDirectory))"/>
  <PropertyGroup>
    <WorkingDir>%(OutputDirectory.Fullpath)</WorkingDir>
  </PropertyGroup>
  <!-- Zip files based on the group they belong to -->
</Target>
</Project>

See Also
Reference
MSBuild.ExtensionPack.Compression Namespace
DNZip Constructor

Namespace: MSBuild.ExtensionPack.Compression
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
DNZip Class
MSBuild.ExtensionPack.Compression Namespace

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The **DNZip** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CompressFiles</td>
<td>Sets the files to Compress</td>
</tr>
<tr>
<td>CompressionLevel</td>
<td>Sets the CompressionLevel to use. Default is Default, also supports BestSpeed and BestCompression</td>
</tr>
<tr>
<td>CompressPath</td>
<td>Sets the Path to Zip.</td>
</tr>
<tr>
<td>ExtractPath</td>
<td>Path to extract the zip file to</td>
</tr>
<tr>
<td>MaxOutputSegmentSize</td>
<td>Sets the maximum output segment size, which typically results in a split archive (an archive split into multiple files). This value is not required and if not set or set to 0 the resulting archive will not be split. For more details see the DotNetZip documentation.</td>
</tr>
<tr>
<td>Password</td>
<td>Sets the Password to be used</td>
</tr>
<tr>
<td>RemoveRoot</td>
<td>Sets the root to remove from the zip path. Note that this should be part of the file to compress path, not the target path of the ZipFileName</td>
</tr>
<tr>
<td>UseZip64WhenSaving</td>
<td>Sets the UseZip64WhenSaving output of the DotNetZip library. For more details see the DotNetZip documentation.</td>
</tr>
<tr>
<td>ZipFileName</td>
<td>Sets the name of the Zip File</td>
</tr>
</tbody>
</table>

## See Also

### Reference

- **DNZip Class**
- **MSBuild.ExtensionPack.Compression Namespace**

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Send comments on this topic to MSBuild ExtensionPack Feedback
DNZipCompressFiles Property

Sets the files to Compress

**Namespace:** MSBuild.ExtensionPack.Compression

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

DNZip Class

MSBuild.ExtensionPack.Compression Namespace

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**DNZipCompressionLevel Property**

Sets the CompressionLevel to use. Default is Default, also supports BestSpeed and BestCompression

**Namespace:** MSBuild.ExtensionPack.Compression  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference
- DNZip Class
- MSBuild.ExtensionPack.Compression Namespace

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DNZipCompressPath Property

Sets the Path to Zip.

Namespace: MSBuild.ExtensionPack.Compression
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
DNZip Class
MSBuild.ExtensionPack.Compression Namespace

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DNZipExtractPath Property

Path to extract the zip file to

Namespace: MSBuild.ExtensionPack.Compression
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
DNZip Class
MSBuild.ExtensionPack.Compression Namespace

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**DNZipMaxOutputSegmentSize Property**

Sets the maximum output segment size, which typically results in a split archive (an archive split into multiple files). This value is not required and if not set or set to 0 the resulting archive will not be split. For more details see the DotNetZip documentation.

**Namespace:** MSBuild.ExtensionPack.Compression  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
DNZip Class  
MSBuild.ExtensionPack.Compression Namespace

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DNZipPassword Property

Sets the Password to be used

Namespace: MSBuild.ExtensionPack.Compression
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
DNZip Class
MSBuild.ExtensionPack.Compression Namespace

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DNZipRemoveRoot Property

Sets the root to remove from the zip path. Note that this should be part of the file to compress path, not the target path of the ZipFileName.

Namespace: MSBuild.ExtensionPack.Compression
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

DNZip Class
MSBuild.ExtensionPack.Compression Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
DNZipUseZip64WhenSaving  MSBuild Extension Pack Help

Property

Sets the UseZip64WhenSaving output of the DotNetZip library. For more details see the DotNetZip documentation.

Namespace:  MSBuild.ExtensionPack.Compression
Assembly:  MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  Version:  4.0.0.0

See Also

Reference

DNZip Class
MSBuild.ExtensionPack.Compression Namespace

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**DNZipZipFileName Property**

Sets the name of the Zip File

*Namespace: MSBuild.ExtensionPack.Compression*

*Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)*  
*Version: 4.0.0.0*

**See Also**

*Reference*

DNZip Class  
MSBuild.ExtensionPack.Compression Namespace

---

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Zip Class

Valid TaskActions are:

*AddFiles* *(Required: ZipFileName, CompressFiles or Path Optional: CompressionLevel, MaxOutputSegmentSize, Password; RemoveRoot, UseZip64WhenSaving) Existing files will be updated

*Create* *(Required: ZipFileName, CompressFiles or Path Optional: CompressionLevel, MaxOutputSegmentSize, Password; RemoveRoot, UseZip64WhenSaving, PreserveAttributes)*

*Extract* *(Required: ZipFileName, ExtractPath Optional: Password)*

Remote Execution Support: NA

This task uses http://dotnetzip.codeplex.com v1.9.1.8 for compression.

Inheritance Hierarchy

*SystemObject*  *Microsoft.Build.UtilitiesTask*
  *MSBuild.ExtensionPackBaseTask*
  *MSBuild.ExtensionPack.CompressionZip*

Namespace: MSBuild.ExtensionPack.Compression
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The *Zip* type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zip</td>
<td></td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CompressFiles</td>
<td>Sets the files to Compress</td>
</tr>
<tr>
<td>CompressionLevel</td>
<td>Sets the CompressionLevel to use. Default is Default, also supports BestSpeed and BestCompression</td>
</tr>
<tr>
<td><strong>CompressPath</strong></td>
<td>Sets the Path to Zip.</td>
</tr>
<tr>
<td><strong>ExtractPath</strong></td>
<td>Path to extract the zip file to</td>
</tr>
<tr>
<td><strong>MaxOutputSegmentSize</strong></td>
<td>Sets the maximum output segment size, which typically results in a split archive (an archive split into multiple files). This value is not required and if not set or set to 0 the resulting archive will not be split. For more details see the DotNetZip documentation.</td>
</tr>
<tr>
<td><strong>Password</strong></td>
<td>Sets the Password to be used</td>
</tr>
<tr>
<td><strong>PreserveAttributes</strong></td>
<td>This is only applicable when the TaskAction is Create or AddFiles. Specifies whether file (folder) attributes like Hidden or Read-only should be left intact during adding to the archive. The default is true.</td>
</tr>
<tr>
<td><strong>RemoveRoot</strong></td>
<td>Sets the root to remove from the zip path. Note that this should be part of the file to compress path, not the target path of the ZipFileName</td>
</tr>
<tr>
<td><strong>UseZip64WhenSaving</strong></td>
<td>Sets the UseZip64WhenSaving output of the DotNetZip library. For more details see the DotNetZip documentation.</td>
</tr>
<tr>
<td><strong>ZipFileName</strong></td>
<td>Sets the name of the Zip File</td>
</tr>
</tbody>
</table>

**Top**

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"
<TPath>$(MSBuildProjectDirectory)\.\MSBuild.ExtensionPack.tasks</TPath>
<TPath Condition="Exists('$(MSBuildProjectDirectory)\.MSBuild.ExtensionPack.tasks')"/>
<Import Project="$(TPath)"/>
<Target Name="Default" DependsOnTargets="Sample1;Sample2"/>
<Target Name="Sample1">
<ItemGroup>
   <!-- Set the collection of files to Zip-->
   <FilesToZip Include="C:\Patches\**\**"/>
</ItemGroup>
<!-- Create a zip file based on the FilesToZip collection -->
<!-- Create a zip file based on a Path -->
```
```
<!-- Extract a zip file-->
</Target>
<Target Name="Sample2">
<PropertyGroup>
  <SourceDirectory>MotorData</SourceDirectory>
</PropertyGroup>
<ItemGroup>
  <Files Include="$(SourceDirectory)" Exclude="">
    <Group>Common</Group>
  </Files>
  <Files Include="$(SourceDirectory)Cars" Exclude="">
    <Group>Cars</Group>
  </Files>
  <Files Include="$(SourceDirectory)Trucks" Exclude="">
    <Group>Trucks</Group>
  </Files>
</ItemGroup>
<!-- Create the output folder -->
<ItemGroup>
  <OutputDirectory Include="output"/>
</ItemGroup>
<MakeDir Directories="@(OutputDirectory)"/>
<PropertyGroup>
  <WorkingDir>%(OutputDirectory.Fullpath)</WorkingDir>
</PropertyGroup>
<!-- Zip files based on the group they belong to -->
</Target>
</Project>

See Also

Reference
MSBuild.ExtensionPack.Compression Namespace
Zip Constructor

Namespace: MSBuild.ExtensionPack.Compression
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Zip Class
MSBuild.ExtensionPack.Compression Namespace

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The **Zip** type exposes the following members.

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CompressFiles</td>
<td>Sets the files to Compress</td>
</tr>
<tr>
<td>CompressionLevel</td>
<td>Sets the CompressionLevel to use. Default is Default, also supports BestSpeed and BestCompression</td>
</tr>
<tr>
<td>CompressPath</td>
<td>Sets the Path to Zip.</td>
</tr>
<tr>
<td>ExtractPath</td>
<td>Path to extract the zip file to</td>
</tr>
<tr>
<td>MaxOutputSegmentSize</td>
<td>Sets the maximum output segment size, which typically results in a split archive (an archive split into multiple files). This value is not required and if not set or set to 0 the resulting archive will not be split. For more details see the DotNetZip documentation.</td>
</tr>
<tr>
<td>Password</td>
<td>Sets the Password to be used</td>
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<td>PreserveAttributes</td>
<td>This is only applicable when the TaskAction is Create or AddFiles. Specifies whether file (folder) attributes like Hidden or Read-only should be left intact during adding to the archive. The default is true.</td>
</tr>
<tr>
<td>RemoveRoot</td>
<td>Sets the root to remove from the zip path. Note that this should be part of the file to compress path, not the target path of the ZipFileName</td>
</tr>
<tr>
<td>UseZip64WhenSaving</td>
<td>Sets the UseZip64WhenSaving output of the DotNetZip library. For more details see the DotNetZip documentation.</td>
</tr>
<tr>
<td>ZipFileName</td>
<td>Sets the name of the Zip File</td>
</tr>
</tbody>
</table>

### See Also

**Reference**

*Zip Class*

*MSBuild.ExtensionPack.Compression Namespace*

---

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ZipCompressFiles Property

Sets the files to Compress

**Namespace:** MSBuild.ExtensionPack.Compression  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
Zip Class  
MSBuild.ExtensionPack.Compression Namespace

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ZipCompressionLevel Property

Sets the CompressionLevel to use. Default is Default, also supports BestSpeed and BestCompression

Namespace: MSBuild.ExtensionPack.Compression
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Zip Class
MSBuild.ExtensionPack.Compression Namespace

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ZipCompressPath Property

Sets the Path to Zip.

Namespace: MSBuild.ExtensionPack.Compression
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Zip Class
MSBuild.ExtensionPack.Compression Namespace

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**ZipExtractPath Property**  MSBuild Extension Pack Help 4.0.12.0

Path to extract the zip file to

**Namespace:** MSBuild.ExtensionPack.Compression  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
Zip Class  
MSBuild.ExtensionPack.Compression Namespace

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**ZipMaxOutputSegmentSize Property**

Sets the maximum output segment size, which typically results in a split archive (an archive split into multiple files). This value is not required and if not set or set to 0 the resulting archive will not be split. For more details see the DotNetZip documentation.

**Namespace:** MSBuild.ExtensionPack.Compression  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

Zip Class  
MSBuild.ExtensionPack.Compression Namespace

---

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ZipPassword Property

Sets the Password to be used

**Namespace:** MSBuild.ExtensionPack.Compression

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

Reference

- Zip Class
- MSBuild.ExtensionPack.Compression Namespace

---

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ZipPreserveAttributes Property

This is only applicable when the TaskAction is Create or AddFiles. Specifies whether file (folder) attributes like Hidden or Read-only should be left intact during adding to the archive. The default is true.

Namespace: MSBuild.ExtensionPack.Compression
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

See Also

Zip Class
MSBuild.ExtensionPack.Compression Namespace

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**ZipRemoveRoot Property**

Sets the root to remove from the zip path. Note that this should be part of the file to compress path, not the target path of the ZipFileName

**Namespace:** MSBuild.ExtensionPack.Compression

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

Referenced Class

Zip Class

MSBuild.ExtensionPack.Compression Namespace

---

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ZipUseZip64WhenSaving Property

Sets the UseZip64WhenSaving output of the DotNetZip library. For more details see the DotNetZip documentation.

Namespace: MSBuild.ExtensionPack.Compression
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Zip Class
MSBuild.ExtensionPack.Compression Namespace

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ZipFileName Property

Sets the name of the Zip File

Namespace: MSBuild.ExtensionPack.Compression
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Zip Class
MSBuild.ExtensionPack.Compression Namespace

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Overview

This namespace hosts tasks that can be used to interact with various computer elements.

Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ActiveDirectory</td>
<td><strong>Valid TaskActions are:</strong></td>
</tr>
<tr>
<td></td>
<td><em>AddUser (Required: User Optional: Domain, FullName, Description, Password, PasswordExpired, PasswordNeverExpires, FirstName, LastName)</em></td>
</tr>
<tr>
<td></td>
<td><em>AddGroup (Required: Group Optional: Domain, Description, GroupType)</em></td>
</tr>
<tr>
<td></td>
<td><em>AddGroupToGroup (Required: Parent, Group). Windows Server 2008 only.</em></td>
</tr>
<tr>
<td></td>
<td><em>AddUserToGroup (Required: User, Group)</em></td>
</tr>
<tr>
<td></td>
<td><em>CheckUserExists (Required: User Output: Exists)</em></td>
</tr>
<tr>
<td></td>
<td><em>CheckUserPassword (Required: User, Password Optional: BindingContextOptions, ContextTypeStore, Domain Output: Exists)</em></td>
</tr>
<tr>
<td></td>
<td><em>CheckGroupExists (Required: Group Output: Exists)</em></td>
</tr>
<tr>
<td></td>
<td><em>DeleteUser (Required: User)</em></td>
</tr>
<tr>
<td></td>
<td><em>DeleteGroup (Required: Group)</em></td>
</tr>
<tr>
<td></td>
<td><em>DeleteUserFromGroup (Required: User, Group)</em></td>
</tr>
<tr>
<td></td>
<td><em>GetGroupMembers (Required: Group Optional: GetFullMemberName Output: Members)</em></td>
</tr>
<tr>
<td></td>
<td><em>GetUserPassword (Required: User Optional: BindingContextOptions, ContextTypeStore, Domain, ErrorOnCancel Output: Password)</em></td>
</tr>
<tr>
<td></td>
<td><em>GrantPrivilege (Required: User, Privilege Optional: Domain)</em></td>
</tr>
</tbody>
</table>
**RemoveGroupFromGroup** *(Required: Parent, Group). Windows Server 2008 only.*

**Remote Execution Support:** Yes

### ComponentServices

**Valid TaskActions are:**

- **AddComponent** *(Required: Path, ApplicationName Optional: Activation, Identity, UserPassword, Framework)*

- **AddNativeComponent** *(Required: Path, ApplicationName Optional: Activation, Identity, UserPassword, Framework)*

- **CheckApplicationExists** *(Required: ApplicationName Output: Exists)*

- **CreateApplication** *(Required: ApplicationName Optional: Activation, EnforceAccessChecks, Identity, UserPassword)*

- **DeleteApplication** *(Required: ApplicationName)*

- **RemoveComponent** *(Required: Path Optional: Framework)*

- **SetConstructor** *(Required: ApplicationName, ComponentName, ConstructorString)*

- **SetAccessIisIntrinsicProperties** *(Required: ApplicationName, ComponentName Optional: AllowIntrinsicIisProperties)*

- **SetTransactionSupport** *(Required: ApplicationName, ComponentName, Transaction)*

- **ShutDownApplication** *(Required: ApplicationName)*

- **UpdateApplication** *(Required: ApplicationName Optional: Activation, Identity, UserPassword)*

**Remote Execution Support:** No

### EnvironmentVariable

**Valid TaskActions are:**

- **Get** *(Required: Variable Optional: Target Output: Value)*

- **Set** *(Required: Variable, Value Optional: Target)*

**Remote Execution Support:** For Get TaskAction only

### EventLog

**Valid TaskActions are:**

- **Backup** *(Required: LogName, BackupPath Optional: MachineName)*

- **CheckExists** *(Required: LogName Optional: MachineName)*
**EventSource**

Valid TaskActions are:
- **CheckExists** *(Required: Source Optional: MachineName)*
  
  **Output:** Exists

- **Create** *(Required: Source, LogName Optional: Force, MachineName, CategoryCount, MessageResourceFile, CategoryResourceFile, ParameterResourceFile)*

- **Delete** *(Required: Source Optional: MachineName)*

- **Log** *(Required: Source, Description, LogType, EventId, LogNameOptional: MachineName)*

Remote Execution Support: Yes

**HostsFile**

Valid TaskActions are:
- **SetHostEntry** *(Required: HostName, IPAddress Optional: Comment, PathToHostsFile)*

- **Update** *(Required: HostEntries Optional: PathToHostsFile, Truncate)*

Remote Execution Support: No

**Network**

Valid TaskActions are:
- **GetDnsHostName** *(Required: HostName Output: DnsHostName)*

- **GetFreePort** *(Output: Port)*

- **GetInternalIP** *(Output: Ip)*

- **GetRemoteIP** *(Required: HostName Output: Ip)*

- **Ping** *(Required: HostName Optional: Timeout, PingCount Output: Exists)*
<table>
<thead>
<tr>
<th>Category</th>
<th>Valid TaskActions are:</th>
</tr>
</thead>
</table>
| **Remote Execution Support:** NA
| **PerformanceCounters** | Add *(Required: CategoryName, CounterList, CategoryHelp Optional: MultiInstance, KeepExistingCounters)* |
|                    | CheckCategoryExists *(Required: CategoryName Optional: MachineName)*                  |
|                    | CheckCounterExists *(Required: CategoryName, CounterName Optional: MachineName)*      |
|                    | GetValue *(Required: CategoryName, CounterName Output: Value, MachineName)*            |
|                    | Remove *(Required: CategoryName)*                                                    |
| **Remote Execution Support:** Partial
| **Process**        | CheckRunning *(Required: ProcessName Output: IsRunning)*                              |
|                    | Create *(Required: Parameters Output: ReturnValue, ProcessId)*                       |
|                    | Get *(Required: ProcessName, Value Optional: User, ProcessName, IncludeUserInfo Output: Processes)* |
|                    | Terminate *(Required: ProcessName or ProcessId)*                                     |
| **Remote Execution Support:** Yes
| **Registry**       | CheckEmpty *(Required: RegistryHive, Key Optional: RegistryView Output: Empty)*        |
|                    | CheckValueExists *(Required: RegistryHive, Key, Value Optional: RegistryView Output: Empty) (true iff the value does not exist)) |
|                    | CreateKey *(Required: RegistryHive, Key Optional: RegistryView)*                      |
|                    | DeleteKey *(Required: RegistryHive, Key Optional: RegistryView)*                      |
|                    | DeleteKeyTree *(Required: RegistryHive, Key Optional: RegistryView)*                 |
|                    | DeleteValue *(Required: RegistryHive, Key, Value Optional: RegistryView Output: Empty) (true iff the Delete was redundant)* |
| **Get** (Required: RegistryHive, Key, Value **Optional:** RegistryView **Output:** Data) |
| **Set** (Required: RegistryHive, Key, Value **Optional:** DataType, RegistryView) |
| **Remote Execution Support:** Yes |

| **SystemDrive** | **Valid TaskActions are:** |
| CheckDriveSpace (Required: Drive, MinSpace **Optional:** Unit) |
| GetDrives (Optional: SkipDrives, Unit **Output:** Drives) |
| **Remote Execution Support:** Yes |

| **WindowsService** | **Valid TaskActions are:** |
| CheckExists (Required: ServiceName **Optional:** MachineName, RemoteUser, RemoteUserPassword **Output:** Exists) |
| Delete (Required: ServiceName **Optional:** MachineName) |
| Disable (Required: ServiceName **Optional:** MachineName) |
| Install (Required: ServiceName, ServicePath, User **Optional:** Force, StartupType, CommandLineArguments, Description, ServiceDependencies, ServiceDisplayName, MachineName, RemoteUser, RemoteUserPassword) |
| Restart (Required: ServiceName or Services **Optional:** MachineName). Any running directly dependent services will be restarted too. |
| SetAutomatic (Required: ServiceName **Optional:** MachineName) |
| SetManual (Required: ServiceName **Optional:** MachineName) |
| Start (Required: ServiceName or Services **Optional:** MachineName, RetryAttempts) |
| Stop (Required: ServiceName or Services **Optional:** MachineName, RetryAttempts) |
| Uninstall (Required: ServicePath **Optional:** MachineName, RemoteUser, RemoteUserPassword) |
| UpdateIdentity (Required: ServiceName, User, Password **Optional:** MachineName) |
| **Remote Execution Support:** Yes |

| **WshShell** | **Valid TaskActions are:** |
CreateShortcut (Required: Name, FilePath Optional: Arguments, ShortcutPath, Description, WorkingDirectory, IconLocation)

Remote Execution Support: No

## Interfaces

<table>
<thead>
<tr>
<th>Interface</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHostsFile</td>
<td></td>
</tr>
<tr>
<td>IHostsFileReader</td>
<td></td>
</tr>
<tr>
<td>IHostsFileWriter</td>
<td></td>
</tr>
</tbody>
</table>

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**ActiveDirectory Class**

Valid TaskActions are:

*AddUser* (Required: User Optional: Domain, FullName, Description, Password, PasswordExpired, PasswordNeverExpires, FirstName, LastName)

*AddGroup* (Required: Group Optional: Domain, Description, GroupType)

*AddGroupToGroup* (Required: Parent, Group). Windows Server 2008 only.

*AddUserToGroup* (Required: User, Group)

*CheckUserExists* (Required: User Output: Exists)

*CheckUserPassword* (Required: User, Password Optional: BindingContextOptions, ContextTypeStore, Domain Output: Exists)

*CheckGroupExists* (Required: Group Output: Exists)

*DeleteUser* (Required: User)

*DeleteGroup* (Required: Group)

*DeleteUserFromGroup* (Required: User, Group)

*GetGroupMembers* (Required: Group Optional: GetFullMemberName Output: Members)

*GetUserPassword* (Required: User Optional: BindingContextOptions, ContextTypeStore, Domain, ErrorOnCancel Output: Password)

*GrantPrivilege* (Required: User, Privilege Optional: Domain)

*RemoveGroupFromGroup* (Required: Parent, Group). Windows Server 2008 only.

Remote Execution Support: Yes

**Inheritance Hierarchy**

SystemObject  Microsoft.Build.UtilitiesTask
               MSBuild.ExtensionPackBaseTask

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The **ActiveDirectory** type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ActiveDirectory</td>
<td></td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>HttpContextOptions</code></td>
<td>Specifies the options that are used for binding to the server. Default is Negotiate</td>
</tr>
<tr>
<td><code>ContextTypeStore</code></td>
<td>Specifies the store to use. Supports Machine and Domain. Default is Domain.</td>
</tr>
<tr>
<td><code>Description</code></td>
<td>Sets the User's or Group's description</td>
</tr>
<tr>
<td><code>Domain</code></td>
<td>Sets the domain to operate against.</td>
</tr>
<tr>
<td><code>ErrorOnCancel</code></td>
<td>Set to true to raise an error if the user clicks cancel on GetPassword form.</td>
</tr>
<tr>
<td><code>Exists</code></td>
<td>Gets whether the User or Group exists</td>
</tr>
<tr>
<td><code>FirstName</code></td>
<td>Set the User's First name</td>
</tr>
<tr>
<td><code>FullName</code></td>
<td>Sets the User's full name</td>
</tr>
<tr>
<td><code>GetFullMemberName</code></td>
<td>Sets whether to extract the domain name when using GetGroupMembers. Default is false</td>
</tr>
<tr>
<td><code>Group</code></td>
<td>Sets the Group name</td>
</tr>
<tr>
<td><code>GroupType</code></td>
<td>Sets the GroupType. For non domains the default is Local. For Domains the default is Global. Supports Global, Local, Universal</td>
</tr>
<tr>
<td><code>LastName</code></td>
<td>Sets the User's Last name</td>
</tr>
<tr>
<td><code>Members</code></td>
<td>Gets the members of a group</td>
</tr>
<tr>
<td><code>ParentGroup</code></td>
<td>Sets the Parent group</td>
</tr>
<tr>
<td><code>Password</code></td>
<td>Sets the User's password</td>
</tr>
<tr>
<td><code>PasswordExpired</code></td>
<td>Sets the User's password to expired. Default is false</td>
</tr>
</tbody>
</table>
### Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists($(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks)" />
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- Check a user Exists -->
      <Output TaskParameter="Exists" PropertyName="DoesExist" />
      <Message Text="JudgeJS1 Exists: $(DoesExist)" />
    <!-- Add local Users -->
        <!-- Grant a user a privilege local Users -->
          <!-- Check a user Exists -->
          <Output TaskParameter="Exists" PropertyName="DoesExist" />
          <Message Text="JudgeJS1 Exists: $(DoesExist)" />
          <!-- Check a Group Exists -->
            <Output TaskParameter="Exists" PropertyName="DoesExist" />
            <Message Text="NewGroup1 Exists: $(DoesExist)" />
  </Target>
</Project>
```
<!-- Add local Groups -->
<!-- Check a Group Exists -->
  <Output TaskParameter="Exists" PropertyName="DoesExist"
<Message Text="NewGroup1 Exists: $(DoesExist)"
<!-- Add the users to the Groups -->
<!-- To add domain user(s) to a group, prefix name with the user's domain -->
<!-- Delete Users from Groups -->
<!-- Delete local Users -->
<!-- Delete local Groups -->
<!-- Add a remote User -->
<!-- Add a remote Group -->
<!-- Add a Domain User -->
<!-- Add a Domain Group -->
<!-- Get a user's password-->
  <Output TaskParameter="Password" PropertyName="Pass"
<Message Text="User Password: $(Pass)"/>
<!-- Check a user's password-->
  <Output TaskParameter="Exists" PropertyName="DoesExist"
<Message Text="User Exists: $(DoesExist)"/>
<!-- Get Group Members -->
  <Output TaskParameter="Members" ItemName="Members"
<!-- Get Group Members including Parent -->
  <Output TaskParameter="Members" ItemName="Members"/>
<Message Text="%(Groups.Identity)"/>
<!-- Group Group Operations -->
<Output TaskParameter="Members" ItemName="Members"/>
<Message Text="FULL %(FullGroups.Identity)"/>
</Target>
</Project>

See Also

Reference

MSBuild.ExtensionPack.Computer Namespace

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**ActiveDirectory Constructor**

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference  
ActiveDirectory Class  
MSBuild.ExtensionPack.Computer Namespace

---

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The **ActiveDirectory** type exposes the following members.

## Properties

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<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BindingContextOptions</td>
<td>Specifies the options that are used for binding to the server. Default is Negotiate</td>
</tr>
<tr>
<td>ContextTypeStore</td>
<td>Specifies the store to use. Supports Machine and Domain. Default is Domain.</td>
</tr>
<tr>
<td>Description</td>
<td>Sets the User's or Group's description</td>
</tr>
<tr>
<td>Domain</td>
<td>Sets the domain to operate against.</td>
</tr>
<tr>
<td>ErrorOnCancel</td>
<td>Set to true to raise an error if the user clicks cancel on GetPassword form.</td>
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<tr>
<td>FullName</td>
<td>Sets the User's full name</td>
</tr>
<tr>
<td>GetFullMemberName</td>
<td>Sets whether to extract the domain name when using GetGroupMembers. Default is false.</td>
</tr>
<tr>
<td>Group</td>
<td>Sets the Group name</td>
</tr>
<tr>
<td>GroupType</td>
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<tr>
<td>LastName</td>
<td>Sets the User's Last name</td>
</tr>
<tr>
<td>Members</td>
<td>Gets the members of a group</td>
</tr>
<tr>
<td>ParentGroup</td>
<td>Sets the Parent group</td>
</tr>
<tr>
<td>Password</td>
<td>Sets the User's password</td>
</tr>
<tr>
<td>PasswordExpired</td>
<td>Sets the User's password to expired. Default is false</td>
</tr>
<tr>
<td>PasswordNeverExpires</td>
<td>Sets the User's password to never expire. Default is false</td>
</tr>
<tr>
<td>User</td>
<td>Sets the User name. Supports DirectoryPath metadata for</td>
</tr>
</tbody>
</table>
See Also

AddUserToGroup. Use this to supply different domain users.

| UserDomain | The domain the user is in. If not set, defaults to Domain. |

Top

Reference

ActiveDirectory Class
MSBuild.ExtensionPack.Computer Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
ActiveDirectoryBindingContextOptions Property

Specifies the options that are used for binding to the server. Default is Negotiate

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

See Also

Reference

ActiveDirectory Class
MSBuild.ExtensionPack.Computer Namespace
**ActiveDirectoryContextTypeStore**  
MSBuild Extension Pack  
Help 4.0.12.0

Specifies the store to use. Supports Machine and Domain. Default is Domain.

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**  
ActiveDirectory Class  
MSBuild.ExtensionPack.Computer Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**ActiveDirectoryDescription Property**

Sets the User's or Group's description

**Namespace:** MSBuild.ExtensionPack.Computer

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

### See Also

**Reference**

- ActiveDirectory Class

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
### ActiveDirectoryDomain Property

Sets the domain to operate against.

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

### See Also

- [ActiveDirectory Class](#)

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
ActiveDirectoryErrorOnCancel Property

Set to true to raise an error if the user clicks cancel on GetPassword form.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
ActiveDirectory Class
MSBuild.ExtensionPack.Computer Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
ActiveDirectoryExists Property

Gets whether the User or Group exists

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
ActiveDirectory Class
MSBuild.ExtensionPack.Computer Namespace

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ActiveDirectoryFirstName Property

Set the User's First name

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also

Reference

ActiveDirectory Class  
MSBuild.ExtensionPack.Computer Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
ActiveDirectoryFullName Property

Sets the User's full name

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
ActiveDirectory Class
MSBuild.ExtensionPack.Computer Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**ActiveDirectoryGetFullMemberName**

Sets whether to extract the domain name when using GetGroupMembers. Default is false.

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

ActiveDirectory Class  
MSBuild.ExtensionPack.Computer Namespace

---

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ActiveDirectoryGroup Property

Sets the Group name

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
ActiveDirectory Class
MSBuild.ExtensionPack.Computer Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
ActiveDirectoryGroupType Property

Sets the GroupType. For non domains the default is Local. For Domains the default is Global. Supports Global, Local, Universal

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
ActiveDirectory Class
MSBuild.ExtensionPack.Computer Namespace
ActiveDirectoryLastName Property

Sets the User's Last name

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
ActiveDirectory Class
MSBuild.ExtensionPack.Computer Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
ActiveDirectoryMembers Property

Gets the members of a group

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
ActiveDirectory Class
MSBuild.ExtensionPack.Computer Namespace

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ActiveDirectoryParentGroup Property

Sets the Parent group

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also

Reference

- ActiveDirectory Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
ActiveDirectoryPassword Property

Sets the User's password

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also

Reference

ActiveDirectory Class  
MSBuild.ExtensionPack.Computer Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**ActiveDirectoryPasswordExpired Property**

Sets the User's password to expired. Default is false

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

See Also

**Reference**

ActiveDirectory Class  
MSBuild.ExtensionPack.Computer Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
ActiveDirectoryPasswordNeverExpires Property

Sets the User's password to never expire. Default is false

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
ActiveDirectory Class
MSBuild.ExtensionPack.Computer Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
ActiveDirectoryPrivilege Property


Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

ActiveDirectory Class
MSBuild.ExtensionPack.Computer Namespace

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ActiveDirectoryUser Property

Sets the User name. Supports DirectoryPath metadata for AddUserToGroup. Use this to supply different domain users.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
ActiveDirectory Class
MSBuild.ExtensionPack.Computer Namespace

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ActiveDirectoryUserDomain Property

The domain the user is in. If not set, defaults to Domain.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
ActiveDirectory Class
MSBuild.ExtensionPack.Computer Namespace

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ComponentServices Class

Valid TaskActions are:

AddComponent (Required: Path, ApplicationName Optional: Activation, Identity, UserPassword, Framework)

AddNativeComponent (Required: Path, ApplicationName Optional: Activation, Identity, UserPassword, Framework)

CheckApplicationExists (Required: ApplicationName Output: Exists)

CreateApplication (Required: ApplicationName Optional: Activation, EnforceAccessChecks, Identity, UserPassword)

DeleteApplication (Required: ApplicationName)

RemoveComponent (Required: Path Optional: Framework)

SetConstructor (Required: ApplicationName, ComponentName, ConstructorString)

SetAccessIisIntrinsicProperties (Required: ApplicationName, ComponentName Optional: AllowIisIntrinsicProperties)

SetTransactionSupport (Required: ApplicationName, ComponentName, Transaction)

ShutDownApplication (Required: ApplicationName)

UpdateApplication (Required: ApplicationName Optional: Activation, Identity, UserPassword)

Remote Execution Support: No

Inheritance Hierarchy

SystemObject  Microsoft.Build.UtilitiesTask
   MSBuild.ExtensionPackBaseTask

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0
The **ComponentServices** type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ComponentServices</td>
<td></td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activation</td>
<td>Sets the type of activation for the application. Defaults to &quot;Local&quot;. Supports: Local (server application), Inproc (library application)</td>
</tr>
<tr>
<td>AllowIntrinsicIisProperties</td>
<td>Sets whether or not component services allows access to Intrinsic IIS properties, used for Windows 2003 components on Windows 2008 and later. Defaults to &quot;False&quot;. Supports: True, False (allow access to Intrinsic IIS properties)</td>
</tr>
<tr>
<td>ApplicationName</td>
<td>Sets the name of the COM+ Application.</td>
</tr>
<tr>
<td>ComponentName</td>
<td>Sets the name of the COM+ component</td>
</tr>
<tr>
<td>ConstructorString</td>
<td>Sets the constructor string for the specified COM+ component. If empty, then the constructor support is removed</td>
</tr>
<tr>
<td>EnforceAccessChecks</td>
<td>Sets whether or not component services enforces access checks for this application. Defaults to &quot;True&quot;. Supports: True (Enforce access checks), False</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the application exists.</td>
</tr>
<tr>
<td>Framework</td>
<td>Sets the version of the .NET FrameWork. Defaults to &quot;v2.0.50727&quot;</td>
</tr>
<tr>
<td>Identity</td>
<td>Sets the process identity for the application. Specify a valid user account or &quot;Interactive User&quot; to have the application assume the identity of the current logged-on user.</td>
</tr>
<tr>
<td>Path</td>
<td>Sets the path to the DLL to be added to the application</td>
</tr>
<tr>
<td>Transaction</td>
<td>Sets the Transaction support for the component. Supports: Ignored, None [Default], Supported, Required, RequiresNew</td>
</tr>
</tbody>
</table>

### Examples
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild\Common\MSBuild.ExtensionPack.tasks</TPath>
  </PropertyGroup>
  <Import Project="$(TPath)/">
  <Target Name="Default">
    <!-- Add a component -->
      Check it exists -->
    <Output TaskParameter="Exists" PropertyName="DoI"/>
    <Message Text="Exists: $(DoI)/">
    <!-- Remove the component -->
      Check it exists again-->
    <Output TaskParameter="Exists" PropertyName="DoI"/>
    <Message Text="Exists: $(DoI)/">
    <!-- Add a component -->
      Check it exists -->
    <Output TaskParameter="Exists" PropertyName="DoI"/>
    <Message Text="Exists: $(DoI)/">
    <!-- Various quick tasks -->
  </Target>
</Project>
ComponentServices Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

ComponentServices Class
MSBuild.ExtensionPack.Computer Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
The **ComponentServices** type exposes the following members.

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activation</td>
<td>Sets the type of activation for the application. Defaults to &quot;Local&quot;. Supports: Local (server application), Inproc (library application)</td>
</tr>
<tr>
<td>AllowIntrinsicIisProperties</td>
<td>Sets whether or not component services allows access to Intrinsic IIS properties, used for Windows 2003 components on Windows 2008 and later. Defaults to &quot;False&quot;. Supports: True, False (allow access to Intrinsic IIS properties)</td>
</tr>
<tr>
<td>ApplicationName</td>
<td>Sets the name of the COM+ Application.</td>
</tr>
<tr>
<td>ComponentName</td>
<td>Sets the name of the COM+ component</td>
</tr>
<tr>
<td>ConstructorString</td>
<td>Sets the constructor string for the specified COM+ component. If empty, then the constructor support is removed</td>
</tr>
<tr>
<td>EnforceAccessChecks</td>
<td>Sets whether or not component services enforces access checks for this application. Defaults to &quot;True&quot;. Supports: True (Enforce access checks), False</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the application exists.</td>
</tr>
<tr>
<td>Framework</td>
<td>Sets the version of the .NET Framework. Defaults to &quot;v2.0.50727&quot;</td>
</tr>
<tr>
<td>Identity</td>
<td>Sets the process identity for the application. Specify a valid user account or &quot;Interactive User&quot; to have the application assume the identity of the current logged-on user.</td>
</tr>
<tr>
<td>Path</td>
<td>Sets the path to the DLL to be added to the application</td>
</tr>
<tr>
<td>Transaction</td>
<td>Sets the Transaction support for the component. Supports: Ignored, None [Default], Supported, Required, RequiresNew</td>
</tr>
</tbody>
</table>

### See Also

**Reference**

**ComponentServices Class**

**MSBuild.ExtensionPack.Computer Namespace**
ComponentServicesActivation Property

Sets the type of activation for the application. Defaults to "Local". Supports: Local (server application), Inproc (library application)

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
ComponentServices Class
MSBuild.ExtensionPack.Computer Namespace

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ComponentServicesAllowIntrinsicIisProperties Property

Sets whether or not component services allows access to Intrinsic IIS properties, used for Windows 2003 components on Windows 2008 and later. Defaults to "False". Supports: True, False (allow access to Intrinsic IIS properties)

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
ComponentServices Class
MSBuild.ExtensionPack.Computer Namespace

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ComponentServicesApplicationName Property

Sets the name of the COM+ Application.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
ComponentServices Class
MSBuild.ExtensionPack.Computer Namespace

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ComponentName Property

Sets the name of the COM+ component

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also

Reference

ComponentServices Class  
MSBuild.ExtensionPack.Computer Namespace

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**ComponentServicesConstructorString** Property

Sets the constructor string for the specified COM+ component. If empty, then the constructor support is removed

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

- ComponentServices Class  

---

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ComponentServicesEnforceAccessChecks Property

Sets whether or not component services enforces access checks for this application. Defaults to "True". Supports: True (Enforce access checks), False

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
ComponentServices Class
MSBuild.ExtensionPack.Computer Namespace

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ComponentServicesExists Property

Gets whether the application exists.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

ComponentServices Class
MSBuild.ExtensionPack.Computer Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
ComponentServicesFramework Property

Sets the version of the .NET FrameWork. Defaults to "v2.0.50727"

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
ComponentServices Class
MSBuild.ExtensionPack.Computer Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
ComponentServicesIdentity Property

Sets the process identity for the application. Specify a valid user account or "Interactive User" to have the application assume the identity of the current logged-on user.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

ComponentServices Class
MSBuild.ExtensionPack.Computer Namespace

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ComponentServicesPath Property

Sets the path to the DLL to be added to the application

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

ComponentServices Class
MSBuild.ExtensionPack.Computer Namespace

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ComponentServicesTransaction Property

Sets the Transaction support for the component. Supports: Ignored, None [Default], Supported, Required, RequiresNew

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

ComponentServices Class
MSBuild.ExtensionPack.Computer Namespace

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**EnvironmentVariable Class**

**Valid TaskActions are:**

*Get* *(Required: Variable Optional: Target Output: Value)*

*Set* *(Required: Variable, Value Optional: Target)*

**Remote Execution Support:** For Get TaskAction only

**Inheritance Hierarchy**

```
SystemObject  Microsoft.Build.UtilitiesTask
   MSBuild.ExtensionPackBaseTask
      MSBuild.ExtensionPack.ComputerEnvironmentVariable
```

**Namespace:** MSBuild.ExtensionPack.Computer

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The *EnvironmentVariable* type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EnvironmentVariable</td>
<td></td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target</td>
<td>Machine, Process or User. Defaults to Process</td>
</tr>
<tr>
<td>Value</td>
<td>Gets or sets the value. May be a string array for Get. If Value is not passed or empty for Set, the environment variable is deleted.</td>
</tr>
<tr>
<td>Variable</td>
<td>The name of the Environment Variable to get or set.</td>
</tr>
</tbody>
</table>

### Examples
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild.ExtensionPack.tasks</TPath>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- Set an environment variable. Note
    <!-- Set a new Environment Variable. The default target is Process
    <!-- Get the Environment Variable -->
      <Output PropertyName="EnvValue" TaskParameter />
      <Message Text="Get: $(EnvValue)"/>
      <Output PropertyName="EnvValue" TaskParameter />
      <Message Text="Get: $(EnvValue)"/>
      <Output PropertyName="EnvValue" TaskParameter />
      <Message Text="INOCULAN Get: $(EnvValue)"/>
      <Output PropertyName="EnvValue" TaskParameter />
      <Message Text="FT Get: $(EnvValue)"/>
    </Target>
  </Project>
EnvironmentVariable Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
EnvironmentVariable Class
MSBuild.ExtensionPack.Computer Namespace

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EnvironmentVariable Properties

The EnvironmentVariable type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target</td>
<td>Machine, Process or User. Defaults to Process</td>
</tr>
<tr>
<td>Value</td>
<td>Gets or sets the value. May be a string array for Get. If Value is not passed or empty for Set, the environment variable is deleted.</td>
</tr>
<tr>
<td>Variable</td>
<td>The name of the Environment Variable to get or set.</td>
</tr>
</tbody>
</table>

## See Also

Reference

- EnvironmentVariable Class

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**EnvironmentVariableTarget Property**

Machine, Process or User. Defaults to Process

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

EnvironmentVariable Class  
MSBuild.ExtensionPack.Computer Namespace

---

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**EnvironmentVariableValue**

Property

Gets or sets the value. May be a string array for Get. If Value is not passed or empty for Set, the environment variable is deleted.

**Namespace:** MSBuild.ExtensionPack.Computer

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

See Also

Reference

EnvironmentVariable Class

MSBuild.ExtensionPack.Computer Namespace

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EnvironmentVariable Property

The name of the Environment Variable to get or set.

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also

Reference

EnvironmentVariable Class  
MSBuild.ExtensionPack.Computer Namespace
**EventLog Class**

Valid TaskActions are:

*Backup* *(Required: LogName, BackupPath **Optional**: MachineName)*

*CheckExists* *(Required: LogName **Optional**: MachineName **Output**: Exists)*

*Clear* *(Required: LogName **Optional**: MachineName)*

*Create* *(Required: LogName **Optional**: MaxSize, Retention, MachineName, CategoryCount, MessageResourceFile, CategoryResourceFile, ParameterResourceFile)*

*Delete* *(Required: LogName **Optional**: MachineName)*

*Modify* *(Required: LogName **Optional**: MaxSize, Retention, MachineName)*

Remote Execution Support: Yes

**Inheritance Hierarchy**


Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The **EventLog** type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🌋 EventLog</td>
<td></td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>📥 BackupPath</td>
<td>Sets the Backup Path</td>
</tr>
<tr>
<td>CategoryCount</td>
<td>Sets the number of categories in the category resource file</td>
</tr>
<tr>
<td>---------------------</td>
<td>------------------------------------------------------------</td>
</tr>
<tr>
<td>CategoryResourceFile</td>
<td>Sets the path of the category resource file to write events with localized category strings</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets a value indicating whether the event log exists.</td>
</tr>
<tr>
<td>LogName</td>
<td>Sets the name of the Event Log</td>
</tr>
<tr>
<td>MaxSize</td>
<td>Sets the size of the max.</td>
</tr>
<tr>
<td>MessageResourceFile</td>
<td>Sets the path of the message resource file to configure an event log source to write localized event messages</td>
</tr>
<tr>
<td>ParameterResourceFile</td>
<td>Sets the path of the parameter resource file to configure an event log source to write localized event messages with inserted parameter strings</td>
</tr>
<tr>
<td>Retention</td>
<td>Sets the retention. Any value &gt; 0 is interpreted as days to retain. Use -1 for 'Overwrite as needed'. Use -2 for 'Never Overwrite'</td>
</tr>
</tbody>
</table>

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\.\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\.\..\Common\MSBuild.ExtensionPack.tasks')"></TPath>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- Backup an eventlog -->
    <!-- Delete an eventlog -->
    <!-- Check whether an eventlog exists -->
    <Output TaskParameter="Exists" PropertyName="Exists" />
  </Target>
</Project>
```

**Top**
<!-- Various other quick tasks -->
<Output TaskParameter="Exists" PropertyName="DemoEventLog Exists: $(DoesExist)"/>
</Target>
</Project>

See Also

Reference
MSBuild.ExtensionPack.Computer Namespace

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EventLog Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
EventLog Class
MSBuild.ExtensionPack.Computer Namespace

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The **EventLog** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BackupPath</td>
<td>Sets the Backup Path</td>
</tr>
<tr>
<td>CategoryCount</td>
<td>Sets the number of categories in the category resource file</td>
</tr>
<tr>
<td>CategoryResourceFile</td>
<td>Sets the path of the category resource file to write events with localized category strings</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets a value indicating whether the event log exists.</td>
</tr>
<tr>
<td>LogName</td>
<td>Sets the name of the Event Log</td>
</tr>
<tr>
<td>MaxSize</td>
<td>Sets the size of the max.</td>
</tr>
<tr>
<td>MessageResourceFile</td>
<td>Sets the path of the message resource file to configure an event log source to write localized event messages</td>
</tr>
<tr>
<td>ParameterResourceFile</td>
<td>Sets the path of the parameter resource file to configure an event log source to write localized event messages with inserted parameter strings</td>
</tr>
<tr>
<td>Retention</td>
<td>Sets the retention. Any value &gt; 0 is interpreted as days to retain. Use -1 for 'Overwrite as needed'. Use -2 for 'Never Overwrite'</td>
</tr>
</tbody>
</table>

## See Also

### Reference

- **EventLog Class**
- **MSBuild.ExtensionPack.Computer Namespace**

---

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Send comments on this topic to [MSBuild ExtensionPack Feedback](mailto:MSBuildExtensionPackFeedback@msbuild.com).
EventLogBackupPath Property

Sets the Backup Path

**Namespace:** MSBuild.ExtensionPack.Computer

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

Reference

EventLog Class

MSBuild.ExtensionPack.Computer Namespace

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EventLogCategoryCount Property

Sets the number of categories in the category resource file

**Namespace:** `MSBuild.ExtensionPack.Computer`  
**Assembly:** `MSBuild.ExtensionPack` (in `MSBuild.ExtensionPack.dll`)  
**Version:** 4.0.0.0

**See Also**

- `EventLog Class`

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**EventLogCategoryResourceFile Property**

Sets the path of the category resource file to write events with localized category strings

**Namespace**: MSBuild.ExtensionPack.Computer  
**Assembly**: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version**: 4.0.0.0

**See Also**

- **Reference**
  - EventLog Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**EventLogExists Property**  MSBuild Extension Pack Help 4.0.12.0

Gets a value indicating whether the event log exists.

**Namespace:**  MSBuild.ExtensionPack.Computer

**Assembly:**  MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  **Version:**  4.0.0.0

---

**See Also**

**Reference**

EventLog Class
MSBuild.ExtensionPack.Computer Namespace

---

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EventLogLogName Property

Sets the name of the Event Log

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

EventLog Class
MSBuild.ExtensionPack.Computer Namespace

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EventLogMaxSize Property

Sets the size of the max.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

See Also

Reference

EventLog Class
MSBuild.ExtensionPack.Computer Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**EventLogMessageResourceFile**  MSBuild Extension Pack Help  4.0.12.0

Sets the path of the message resource file to configure an event log source to write localized event messages

**Namespace:**  MSBuild.ExtensionPack.Computer  
**Assembly:**  MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  **Version:**  4.0.0.0

**See Also**

**Reference**

EventLog Class  
MSBuild.ExtensionPack.Computer Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**EventLogParameterResourceFile Property**

Sets the path of the parameter resource file to configure an event log source to write localized event messages with inserted parameter strings

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**  
EventLog Class  
MSBuild.ExtensionPack.Computer Namespace

---

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**EventLogRetention Property**

Sets the retention. Any value > 0 is interpreted as days to retain. Use -1 for 'Overwrite as needed'. Use -2 for 'Never Overwrite'

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
*EventLog Class*  
*MSBuild.ExtensionPack.Computer Namespace*

---

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**EventSource Class**

**Valid TaskActions are:**

*CheckExists* *(Required: Source Optional: MachineName Output: Exists)*

*Create* *(Required: Source, LogName Optional: Force, MachineName, CategoryCount, MessageResourceFile, CategoryResourceFile, ParameterResourceFile)*

*Delete* *(Required: Source Optional: MachineName)*

*Log* *(Required: Source, Description, LogType, EventId, LogName Optional: MachineName)*

**Remote Execution Support:** Yes

**Inheritance Hierarchy**


**Namespace:** MSBuild.ExtensionPack.Computer
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  Version: 4.0.0.0

The **EventSource** type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EventSource</td>
<td></td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CategoryCount</td>
<td>Sets the number of categories in the category resource file</td>
</tr>
<tr>
<td>CategoryResourceFile</td>
<td>Sets the path of the category resource file to write events with localized category strings</td>
</tr>
<tr>
<td>Description</td>
<td>Sets the description for the logentry</td>
</tr>
<tr>
<td>---------------------</td>
<td>---------------------------------------</td>
</tr>
<tr>
<td>EventId</td>
<td>Sets the event id.</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets a value indicating whether the EventSource exists.</td>
</tr>
<tr>
<td>Force</td>
<td>Set to true to delete any existing matching eventsource when creating</td>
</tr>
<tr>
<td>LogName</td>
<td>Sets the name of the log the source's entries are written to, e.g Application, Security, System, YOUREVENTLOG.</td>
</tr>
<tr>
<td>LogType</td>
<td>Sets the Event Log Entry Type. Possible values are: Error, FailureAudit, Information, SuccessAudit, Warning.</td>
</tr>
<tr>
<td>MessageResourceFile</td>
<td>Sets the path of the message resource file to configure an event log source to write localized event messages</td>
</tr>
<tr>
<td>ParameterResourceFile</td>
<td>Sets the path of the parameter resource file to configure an event log source to write localized event messages with inserted parameter strings</td>
</tr>
<tr>
<td>Source</td>
<td>Sets the source name</td>
</tr>
</tbody>
</table>

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild</TPath>
    <TPath Condition="Exists($(MSBuildProjectDirectory)\..\..\Common\MSBuild.ExtensionPack.tasks)" />
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- Delete an event source -->
    <!-- Check an event source exists -->
      <Output TaskParameter="Exists" PropertyName />
    <Message Text="Exists: $(DoesExist)"/>
    <!-- Create an event source -->
      <Output TaskParameter="Exists" PropertyName />
  </Target>
</Project>
```
See Also

Reference
MSBuild.ExtensionPack.Computer Namespace

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EventSource Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
EventSource Class
MSBuild.ExtensionPack.Computer Namespace

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The **EventSource** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CategoryCount</td>
<td>Sets the number of categories in the category resource file</td>
</tr>
<tr>
<td>CategoryResourceFile</td>
<td>Sets the path of the category resource file to write events with localized category strings</td>
</tr>
<tr>
<td>Description</td>
<td>Sets the description for the logentry</td>
</tr>
<tr>
<td>EventId</td>
<td>Sets the event id.</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets a value indicating whether the EventSource exists.</td>
</tr>
<tr>
<td>Force</td>
<td>Set to true to delete any existing matching eventsource when creating</td>
</tr>
<tr>
<td>LogName</td>
<td>Sets the name of the log the source's entries are written to, e.g Application, Security, System, YOUREVENTLOG.</td>
</tr>
<tr>
<td>LogType</td>
<td>Sets the Event Log Entry Type. Possible values are: Error, FailureAudit, Information, SuccessAudit, Warning.</td>
</tr>
<tr>
<td>MessageResourceFile</td>
<td>Sets the path of the message resource file to configure an event log source to write localized event messages</td>
</tr>
<tr>
<td>ParameterResourceFile</td>
<td>Sets the path of the parameter resource file to configure an event log source to write localized event messages with inserted parameter strings</td>
</tr>
<tr>
<td>Source</td>
<td>Sets the source name</td>
</tr>
</tbody>
</table>
**EventSourceCategoryCount Property**

Sets the number of categories in the category resource file

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference
- EventSource Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**EventSourceCategoryResourceFile**  
*MSBuild Extension Pack Help 4.0.12.0*

Sets the path of the category resource file to write events with localized category strings

**Namespace:**  
*MSBuild.ExtensionPack.Computer*

**Assembly:**  
*MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0*

---

**See Also**

**Reference**

- EventSource Class

---

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**EventSourceDescription Property**

Sets the description for the logentry

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

- EventSource Class

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**EventSourceEventId Property**

Sets the event id.

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

EventSource Class  
MSBuild.ExtensionPack.Computer Namespace

---

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**EventSourceExists Property**

 Gets a value indicating whether the EventSource exists.

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**

- EventSource Class

---

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EventSourceForce Property

Set to true to delete any existing matching eventsource when creating


See Also

Reference

EventSource Class
MSBuild.ExtensionPack.Computer Namespace
**EventSourceLogName Property**

Sets the name of the log the source's entries are written to, e.g Application, Security, System, YOUREVENTLOG.

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference
- EventSource Class

---

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**EventSourceLogType Property**

Sets the Event Log Entry Type. Possible values are: Error, FailureAudit, Information, SuccessAudit, Warning.

**Namespace**: MSBuild.ExtensionPack.Computer  
**Assembly**: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version**: 4.0.0.0

---

**See Also**

**Reference**

- EventSource Class

---

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**EventSourceMessageResourceFile**  
**MSBuild Extension Pack Help 4.0.12.0**

Sets the path of the message resource file to configure an event log source to write localized event messages

**Namespace:**  **MSBuild.ExtensionPack.Computer**  
**Assembly:**  **MSBuild.ExtensionPack** (in MSBuild.ExtensionPack.dll)  
**Version:**  **4.0.0.0**

**See Also**

**Reference**

- **EventSource Class**
- **MSBuild.ExtensionPack.Computer Namespace**

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EventSourceParameterResourceFile Property

Sets the path of the parameter resource file to configure an event log source to write localized event messages with inserted parameter strings

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
EventSource Class
MSBuild.ExtensionPack.Computer Namespace

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EventSource Property

Sets the source name

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
EventSource Class
MSBuild.ExtensionPack.Computer Namespace

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HostsFile Class

Valid TaskActions are:

SetHostEntry (Required: HostName, IPAddress Optional: Comment, PathToHostsFile)

Update (Required: HostEntries Optional: PathToHostsFile, Truncate)

Remote Execution Support: No

Inheritance Hierarchy

SystemObject  Microsoft.Build.UtilitiesTask
   MSBuild.ExtensionPackBaseTask

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The HostsFile type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>📄</td>
<td>HostsFile</td>
</tr>
</tbody>
</table>

Top

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>📄 Comment</td>
<td>The comment after the hosts entry. Only used by the SetHostEntry task action.</td>
</tr>
<tr>
<td>📄 HostEntries</td>
<td>The list of hosts entries. The identity should be the host name. The IP address should be in the IPAddress metadata. A comment about the entry should be in the Comment metadata. The task will fail if the identity or IPAddress metadata are empty.</td>
</tr>
<tr>
<td>📄 HostName</td>
<td>The hostname to alias. Only used by the SetHostEntry task action.</td>
</tr>
<tr>
<td>📄 IPAddress</td>
<td>The IP address for the hosts entry being aliased. Required. Only used by the SetHostEntry task action.</td>
</tr>
</tbody>
</table>
PathToHostsFile | The path to the hosts file to update. Defaults to \%SYSTEMROOT\%\system32\drivers\etc\hosts. Task will fail if this file doesn't exist.
---|---
Truncate | If True, any host entry not in the HostEntries item group will be removed from the hosts file. Default is False. Only used by the Update task action.

Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\..\MSBuild.ExtensionPack.tasks</TPath>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <ItemGroup>
    <HostEntries Include="MyWebService">
      <IPAddress>10.0.0.1</IPAddress>
      <Comment>The IP address for MyWebService</Comment>
    </HostEntries>
    <HostEntries Include="MyWebSite">
      <IPAddress>10.0.0.2</IPAddress>
    </HostEntries>
  </ItemGroup>
  <Target Name="Default">
    <!-- Update the current machine's hosts file. Entries will be deleted (except for the default localhost/127.0.0.1). -->

    <!-- Update a hosts file in a custom location. -->

    <!-- Update a single host entry. If the entry doesn't exist, it will be created. -->
  </Target>
</Project>
```
<Target>

</Target>

</Project>

See Also

Reference

MSBuild.ExtensionPack.Computer Namespace

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HostsFile Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
HostsFile Class
MSBuild.ExtensionPack.Computer Namespace

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HostsFile Properties

The HostsFile type exposes the following members.

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comment</td>
<td>The comment after the hosts entry. Only used by the SetHostEntry task action.</td>
</tr>
<tr>
<td>HostEntries</td>
<td>The list of hosts entries. The identity should be the host name. The IP address should be in the IPAddress metadata. A comment about the entry should be in the Comment metadata. The task will fail if the identity or IPAddress metadata are empty.</td>
</tr>
<tr>
<td>HostName</td>
<td>The hostname to alias. Only used by the SetHostEntry task action.</td>
</tr>
<tr>
<td>IPAddress</td>
<td>The IP address for the hosts entry being aliased. Required. Only used by the SetHostEntry task action.</td>
</tr>
<tr>
<td>PathToHostsFile</td>
<td>The path to the hosts file to update. Defaults to %SYSTEMROOT%\system32\drivers\etc\hosts. Task will fail if this file doesn't exist.</td>
</tr>
<tr>
<td>Truncate</td>
<td>If True, any host entry not in the HostEntries item group will be removed from the hosts file. Default is False. Only used by the Update task action.</td>
</tr>
</tbody>
</table>

Top

See Also

Reference

HostsFile Class

MSBuild.ExtensionPack.Computer Namespace

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**HostsFileComment**

*Property*

The comment after the hosts entry. Only used by the SetHostEntry task action.

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

HostsFile Class  
MSBuild.ExtensionPack.Computer Namespace

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**HostsFileHostEntries**

The list of hosts entries. The identity should be the host name. The IP address should be in the IPAddress metadata. A comment about the entry should be in the Comment metadata. The task will fail if the identity or IPAddress metadata are empty.

**Namespace**: MSBuild.ExtensionPack.Computer  
**Assembly**: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version**: 4.0.0.0

### See Also

- HostsFile Class
HostsFileName

Property

The hostname to alias. Only used by the SetHostEntry task action.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

HostsFile Class
MSBuild.ExtensionPack.Computer Namespace

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HostsFileIPAddress Property

The IP address for the hosts entry being aliased. Required. Only used by the SetHostEntry task action.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
HostsFile Class
MSBuild.ExtensionPack.Computer Namespace

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HostsFilePathToHostsFile Property

The path to the hosts file to update. Defaults to %SYSTEMROOT%\system32\drivers\etc\hosts. Task will fail if this file doesn't exist.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
HostsFile Class
MSBuild.ExtensionPack.Computer Namespace

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HostsFileTruncate Property

If True, any host entry not in the HostEntries item group will be removed from the hosts file. Default is False. Only used by the Update task action.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
HostsFile Class
MSBuild.ExtensionPack.Computer Namespace

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**IHostsFile Interface**

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The **IHostsFile** type exposes the following members.

### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="https://example.com/save.png" alt="save" /></td>
<td>Save</td>
</tr>
<tr>
<td><img src="https://example.com/sethostentry.png" alt="sethostentry" /></td>
<td>SetHostEntry(String, String)</td>
</tr>
<tr>
<td><img src="https://example.com/sethostentry.png" alt="sethostentry" /></td>
<td>SetHostEntry(String, String, String)</td>
</tr>
</tbody>
</table>

### See Also

**Reference**

MSBuild.ExtensionPack.Computer Namespace

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IHostsFile Methods

The IHostsFile type exposes the following members.

Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Save</td>
<td></td>
</tr>
<tr>
<td>SetHostEntry(String, String)</td>
<td></td>
</tr>
<tr>
<td>SetHostEntry(String, String, String)</td>
<td></td>
</tr>
</tbody>
</table>

See Also

Reference

IHostsFile Interface
MSBuild.ExtensionPack.Computer Namespace

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**IHostsFileSave Method**  
MSBuild Extension Pack Help 4.0.12.0

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also

Reference

IHostsFile Interface  
MSBuild.ExtensionPack.Computer Namespace

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**IHostsFileSetHostEntry Method**

**Overload List**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="Image" alt=" " /> SetHostEntry(String, String)</td>
<td></td>
</tr>
<tr>
<td><img src="Image" alt=" " /> SetHostEntry(String, String, String)</td>
<td></td>
</tr>
</tbody>
</table>

**See Also**

- **IHostsFile Interface**
- **MSBuild.ExtensionPack.Computer Namespace**

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**IHostsFileSetHostEntry Method**

*String, String*

**Namespace:** MSBuild.ExtensionPack.Computer

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

Reference

-IHostsFile Interface
-SetHostEntry Overload

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IHostsFile

SetHostEntry Method
(String, String, String)

**Namespace:** MSBuild.ExtensionPack.Computer

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

Reference

IHostsFile Interface

SetHostEntry Overload

MSBuild.ExtensionPack.Computer Namespace

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The **IHostsFileReader** type exposes the following members.

### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read</td>
<td></td>
</tr>
</tbody>
</table>

### See Also

Reference

**MSBuild.ExtensionPack.Computer Namespace**

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Send comments on this topic to MSBuild ExtensionPack Feedback
The `IHostsFileReader` type exposes the following members.

### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read</td>
<td></td>
</tr>
</tbody>
</table>

### See Also

**Reference**
- `IHostsFileReader Interface`

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Send comments on this topic to MSBuild ExtensionPack Feedback
IHostsFileReader Read Method

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
IHostsFileReader Interface
MSBuild.ExtensionPack.Computer Namespace

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Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✨</td>
<td>Write</td>
</tr>
</tbody>
</table>

See Also

Reference

MSBuild.ExtensionPack.Computer Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
The `IHostsFileWriter` type exposes the following members.

## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Write</td>
<td></td>
</tr>
</tbody>
</table>

## See Also

**Reference**

- `IHostsFileWriter Interface`

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Send comments on this topic to MSBuild ExtensionPack Feedback
IHostsFileWriterWrite

Method

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
IHostsFileWriter Interface
MSBuild.ExtensionPack.Computer Namespace

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**Network Class**

MSBuild Extension Pack Help 4.0.12.0

**Valid TaskActions are:**

- **GetDnsHostName** *(Required: **HostName** Output: DnsHostName)*
- **GetFreePort** *(Output: Port)*
- **GetInternalIP** *(Output: Ip)*
- **GetRemoteIP** *(Required: HostName Output: Ip)*
- **Ping** *(Required: HostName Optional: Timeout, PingCount Output: Exists)*

**Remote Execution Support:** NA

**Inheritance Hierarchy**

```
SystemObject    Microsoft.Build.UtilitiesTask
    MSBuild.ExtensionPackBaseTask
```

**Namespace:** MSBuild.ExtensionPack.Computer

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The **Network** type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="NetworkIcon" alt="Network" /></td>
<td>Network</td>
</tr>
</tbody>
</table>

**Top**

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="DnsHostNameIcon" alt="DnsHostName" /></td>
<td>Gets the DnsHostName</td>
</tr>
<tr>
<td><img src="ExistsIcon" alt="Exists" /></td>
<td>Gets whether the Host Exists</td>
</tr>
<tr>
<td><img src="HostNameIcon" alt="HostName" /></td>
<td>Sets the HostName / IP address</td>
</tr>
<tr>
<td><img src="IPIcon" alt="IP" /></td>
<td>Gets the IP's</td>
</tr>
</tbody>
</table>
### Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\..\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\...\Common\MSBuild.ExtensionPack.tasks')"/>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- Get the Machine IP Addresses -->
      <Message Text="The IP: %(TheIP.Identity)"/>
    <!-- Get Remote IP Addresses -->
    <!-- Ping a host -->
      <Message Text="Exists: $(DoesExist)"/>
    <!-- Gets the fully-qualified domain name for a hostname -->
    <MSBuild.ExtensionPack.Computer.Network TaskAction="" Output TaskParameter="DnsHostName" PropertyName="HostEntryName">
      <Message Text="Host Entry name: $(HostEntryName)"/>
    <!-- Get free port details -->
      <Message Text="Free Port: %(Port.Identity)"/>
  </Target>
</Project>
```
<Output TaskParameter="Port" ItemName="F">
<Message Text="Free Port Address: %(FreePort.Address)"
<Message Text="Free Port AddressFamily: %(FreePort.AddressFamily)"
<Message Text="Free Port Port: %(FreePort.Port)"
<Message Text="Free Port ToString: %(FreePort.ToString)"
</Target>
</Project>

See Also
Reference
MSBuild.ExtensionPack.Computer Namespace

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**Network Constructor**

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

- Network Class

---

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Network Properties

The **Network** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DnsHostName</td>
<td>Gets the DnsHostName</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the Host Exists</td>
</tr>
<tr>
<td>HostName</td>
<td>Sets the HostName / IP address</td>
</tr>
<tr>
<td>IP</td>
<td>Gets the IP's</td>
</tr>
<tr>
<td>PingCount</td>
<td>Sets the number of pings to attempt. Default is 5.</td>
</tr>
<tr>
<td>Port</td>
<td>Gets the free port. ItemSpec is Port. Metadata includes Address, AddressFamily, Port and ToString</td>
</tr>
<tr>
<td>Timeout</td>
<td>Sets the timeout in ms for a Ping. Default is 3000</td>
</tr>
</tbody>
</table>

## Top

## See Also

**Reference**

* Network Class
* MSBuild.ExtensionPack.Computer Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**NetworkDnsHostName**

*Property*

Gets the DnsHostName

**Namespace:** [MSBuild.ExtensionPack.Computer](http://www.MSBuildExtensionPack.com)

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

**Reference**

*Network Class*

MSBuild.ExtensionPack.Computer Namespace

---

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Send comments on this topic to [MSBuild ExtensionPack Feedback](http://www.MSBuildExtensionPack.com).
**NetworkExists Property**  MSBuild Extension Pack Help 4.0.12.0

Gets whether the Host Exists

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

Network Class

MSBuild.ExtensionPack.Computer Namespace

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**NetworkHostName Property**

Sets the HostName / IP address

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

Network Class  
MSBuild.ExtensionPack.Computer Namespace

---

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NetworkIP Property

Gets the IP's

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also

Reference

Network Class  
MSBuild.ExtensionPack.Computer Namespace

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NetworkPingCount Property

Sets the number of pings to attempt. Default is 5.

**Namespace:** MSBuild.Extension_pack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**  
**Reference**  
Network Class  
MSBuild.ExtensionPack.Computer Namespace

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**NetworkPort Property**

Gets the free port. ItemSpec is Port. Metadata includes Address, AddressFamily, Port and ToString

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
- Network Class  

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NetworkTimeout Property

Sets the timeout in ms for a Ping. Default is 3000

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

Network Class
MSBuild.ExtensionPack.Computer Namespace

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**PerformanceCounters**

**MSBuild Extension Pack Help 4.0.12.0**

**Valid TaskActions are:**

*Add* *(Required: CategoryName, CounterList, CategoryHelp Optional: MultiInstance, KeepExistingCounters)*

*CheckCategoryExists* *(Required: CategoryName Optional: MachineName)*

*CheckCounterExists* *(Required: CategoryName, CounterName Optional: MachineName)*

*GetValue* *(Required: CategoryName, CounterName Output: Value, MachineName)*

*Remove* *(Required: CategoryName)*

**Remote Execution Support:** Partial

### Inheritance Hierarchy

```plaintext
SystemObject  Microsoft.Build.UtilitiesTask
    MSBuild.ExtensionPackBaseTask
```

**Namespace:** MSBuild.ExtensionPack.Computer

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The **PerformanceCounters** type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="PerformanceCounters" /></td>
<td>PerformanceCounters</td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="CategoryHelp" /></td>
<td>Sets the description of the custom category.</td>
</tr>
</tbody>
</table>
### CategoryName
Sets the CategoryName

### CounterList
Sets the TaskItem[] that specifies the counters to create as part of the new category.

### CounterName
Sets the name of the counter.

### Exists
Gets whether the item exists

### KeepExistingCounters
Sets a value whether existing performance counters of the given category should be preserved when adding new ones.

### MultiInstance
Sets a value indicating whether to create a multiple instance performance counter. Default is false

### Value
Gets the value of the counter

### Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\.MSBuild</TPath>
    <TPath Condition="Exists($(MSBuildProjectDirectory)\.\.Common\MSBuild\ExtensionPack.tasks)" />
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <ItemGroup>
      <!-- Configure some perf counters -->
      <CounterList Include="foobar.A">
        <CounterName>ACounter</CounterName>
        <CounterHelp>A Custom Counter</CounterHelp>
        <CounterType>CounterTimer</CounterType>
      </CounterList>
      <CounterList Include="foobar.A">
        <CounterName>AnotherCounter</CounterName>
        <CounterHelp>Another Custom Counter</CounterHelp>
        <CounterType>CounterTimer</CounterType>
      </CounterList>
    </ItemGroup>
    <!-- Add a Performance Counter -->
  </Target>
</Project>
```
<!-- Check whether a Category Exists -->
  <Output TaskParameter="Exists" PropertyName="DoesExist">
  <Message Text="aYourCustomCategory - $(DoesExist)"

<!-- Check whether a Counter Exists -->
  <Output TaskParameter="Exists" PropertyName="DoesExist">
  <Message Text="AnotherCounter - $(DoesExist)"

<!-- Remove a Performance Counter -->

<!-- Get a Performance Counter value--> 
  <Output PropertyName="TheValue">
  <Message Text="Available MBytes: $(TheValue)"
</Target>
</Project>
PerformanceCounters Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
PerformanceCounters Class
MSBuild.ExtensionPack.Computer Namespace

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The `PerformanceCounters` type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CategoryHelp</td>
<td>Sets the description of the custom category.</td>
</tr>
<tr>
<td>CategoryName</td>
<td>Sets the CategoryName</td>
</tr>
<tr>
<td>CounterList</td>
<td>Sets the TaskItem[] that specifies the counters to create as part of the new category.</td>
</tr>
<tr>
<td>CounterName</td>
<td>Sets the name of the counter.</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the item exists</td>
</tr>
<tr>
<td>KeepExistingCounters</td>
<td>Sets a value whether existing performance counters of the given category should be preserved when adding new ones.</td>
</tr>
<tr>
<td>MultiInstance</td>
<td>Sets a value indicating whether to create a multiple instance performance counter. Default is false</td>
</tr>
<tr>
<td>Value</td>
<td>Gets the value of the counter</td>
</tr>
</tbody>
</table>

## See Also

- **Reference**
  - `PerformanceCounters Class`

---

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PerformanceCountersCategoryHelp Property

Sets the description of the custom category.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
PerformanceCounters Class
MSBuild.ExtensionPack.Computer Namespace

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**PerformanceCounters**

**CategoryName Property**

Sets the CategoryName

**Namespace:** MSBuild.ExtensionPack.Computer

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

**See Also**

- PerformanceCounters Class

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**PerformanceCounters.CounterList**  MSBuild Extension Pack Help 4.0.12.0

Sets the TaskItem[] that specifies the counters to create as part of the new category.

**Namespace:** `MSBuild.ExtensionPack.Computer`  
**Assembly:** `MSBuild.ExtensionPack` (in `MSBuild.ExtensionPack.dll`)  
**Version:** 4.0.0.0

---

**See Also**

Reference

- `PerformanceCounters Class`

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PerformanceCountersCounterName Property

Sets the name of the counter.

**Namespace:** MSBuild.ExtensionPack.Computer
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

See Also

Reference

PerformanceCounters Class
MSBuild.ExtensionPack.Computer Namespace
PerformanceCountersExists Property

Gets whether the item exists

**Namespace:** MSBuild.ExtensionPack.Computer

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
Version: 4.0.0.0

**See Also**

Reference

PerformanceCounters Class

MSBuild.ExtensionPack.Computer Namespace

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PerformanceCountersKeepExistingCounters Property

Sets a value whether existing performance counters of the given category should be preserved when adding new ones.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
PerformanceCounters Class
MSBuild.ExtensionPack.Computer Namespace
**PerformanceCountersMultiInstance Property**

Sets a value indicating whether to create a multiple instance performance counter. Default is false

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
PerformanceCounters Class  
MSBuild.ExtensionPack.Computer Namespace

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PerformanceCountersValue Property

Gets the value of the counter

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
PerformanceCounters Class
MSBuild.ExtensionPack.Computer Namespace

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**Process Class**

MSBuild.ExtensionPack Help 4.0.12.0

**Valid TaskActions are:**

*CheckRunning* *(Required: ProcessName Output: IsRunning)*

*Create* *(Required: Parameters Output: ReturnValue, ProcessId)*

*Get* *(Required: ProcessName, Value Optional: User, ProcessName, IncludeUserInfo Output: Processes)*

*Terminate* *(Required: ProcessName or ProcessId)*

**Remote Execution Support:** Yes

---

**Inheritance Hierarchy**

System.Object  
Microsoft.Build.UtilitiesTask  
MSBuild.ExtensionPackBaseTask  

**Namespace:** MSBuild.ExtensionPack.Computer

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The Process type exposes the following members.

---

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IncludeUserInfo</td>
<td>Sets whether to include user information for processes. Including this will slow the query. Default is false;</td>
</tr>
<tr>
<td>IsRunning</td>
<td>Gets whether the process is running</td>
</tr>
<tr>
<td>Parameters</td>
<td>Sets the Parameters for Create. Use #~# separate name and value.</td>
</tr>
<tr>
<td>Processes</td>
<td>Gets the list of processes. The process name is used as the identity and the</td>
</tr>
</tbody>
</table>
Examples

<table>
<thead>
<tr>
<th>ProcessId</th>
<th>Gets or Sets the ProcessId</th>
</tr>
</thead>
<tbody>
<tr>
<td>ProcessName</td>
<td>Sets the regular expression to use for filtering processes. Default is .*</td>
</tr>
<tr>
<td>ReturnValue</td>
<td>Gets the ReturnValue for Create</td>
</tr>
<tr>
<td>User</td>
<td>Sets the regular expression to use for filtering processes. Default is .*</td>
</tr>
</tbody>
</table>

```
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\.\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists($(MSBuildProjectDirectory)\.\.\Common\MSBuild.ExtensionPack.tasks)" />
  </PropertyGroup>
  <Import Project="$(TPath)" />
  <ItemGroup>
    <WmiExec3 Include="CommandLine~#notepad.exe" />
  </ItemGroup>
  <Target Name="Default">
      <Output TaskParameter="ReturnValue" PropertyName="PID" />
    <Message Text="ReturnValue: $(Rval2). ProcessId: $(PID)" />
      <Output PropertyName="Running" TaskParameter="ProcessId" />
    <Message Text="notepad.exe IsRunning: $(Running)" />
  </Target>
</Project>
```
<Output PropertyName="Running" TaskParam />
<Message Text="notepad.exe IsRunning: $(Running)"
<Output ItemName="ProcessList" TaskParam
</Target>
</Project>

See Also

Reference

MSBuild.ExtensionPack.Computer Namespace

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**Process Constructor**

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**  
Process Class  
MSBuild.ExtensionPack.Computer Namespace

---

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### Process Properties

The **Process** type exposes the following members.

#### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IncludeUserInfo</td>
<td>Sets whether to include user information for processes. Including this will slow the query. Default is false;</td>
</tr>
<tr>
<td>IsRunning</td>
<td>Gets whether the process is running</td>
</tr>
<tr>
<td>Parameters</td>
<td>Sets the Parameters for Create. Use #~# separate name and value.</td>
</tr>
<tr>
<td>Processes</td>
<td>Gets the list of processes. The process name is used as the identity and the following metadata is set: Caption, Description, Handle, HandleCount, KernelModeTime, PageFaults, PageFileUsage, ParentProcessId, PeakPageFileUsage, PeakVirtualSize, PeakWorkingSetSize, Priority, PrivatePageCount, ProcessId, QuotaNonPagedPoolUsage, QuotaPagedPoolUsage, QuotaPeakNonPagedPoolUsage, QuotaPeakPagedPoolUsage, ReadOperationCount, ReadTransferCount, SessionId, ThreadCount, UserModeTime, VirtualSize, WindowsVersion, WorkingSetSize, WriteOperationCount, WriteTransferCount</td>
</tr>
<tr>
<td>ProcessId</td>
<td>Gets or Sets the ProcessId</td>
</tr>
<tr>
<td>ProcessName</td>
<td>Sets the regular expression to use for filtering processes. Default is .*</td>
</tr>
<tr>
<td>ReturnValue</td>
<td>Gets the ReturnValue for Create</td>
</tr>
<tr>
<td>User</td>
<td>Sets the regular expression to use for filtering processes. Default is .*</td>
</tr>
</tbody>
</table>

#### See Also

- **Reference**
- **Process Class**
- **MSBuild.ExtensionPack.Computer Namespace**

---

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Send comments on this topic to **MSBuild ExtensionPack Feedback**
**ProcessIncludeUserInfo Property**

Sets whether to include user information for processes. Including this will slow the query. Default is false;

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
Process Class  
MSBuild.ExtensionPack.Computer Namespace

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**ProcessIsRunning Property**

Gets whether the process is running

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
Process Class  
MSBuild.ExtensionPack.Computer Namespace

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## ProcessParameters Property

Sets the Parameters for Create. Use #~# separate name and value.

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

### See Also

**Reference**  
Process Class  
MSBuild.ExtensionPack.Computer Namespace

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ProcessProcesses Property

Gets the list of processes. The process name is used as the identity and the following metadata is set: Caption, Description, Handle, HandleCount, KernelModeTime, PageFaults, PageFileUsage, ParentProcessId, PeakPageFileUsage, PeakVirtualSize, PeakWorkingSetSize, Priority, PrivatePageCount, ProcessId, QuotaNonPagedPoolUsage, QuotaPagedPoolUsage, QuotaPeakNonPagedPoolUsage, QuotaPeakPagedPoolUsage, ReadOperationCount, ReadTransferCount, SessionId, ThreadCount, UserModeTime, VirtualSize, WindowsVersion, WorkingSetSize, WriteOperationCount, WriteTransferCount

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Process Class
MSBuild.ExtensionPack.Computer Namespace

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**ProcessId**

**Property**

Gets or Sets the ProcessId

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

Process Class  
MSBuild.ExtensionPack.Computer Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**ProcessName Property**

Sets the regular expression to use for filtering processes. Default is .*

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference  
**Process Class**  
MSBuild.ExtensionPack.Computer Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
ProcessReturnValue Property

Gets the ReturnValue for Create

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Process Class
MSBuild.ExtensionPack.Computer Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**ProcessUser Property**

Sets the regular expression to use for filtering processes. Default is .*

**Namespace:** MSBuild.ExtensionPack.Computer

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

*Reference*

Process Class  
MSBuild.ExtensionPack.Computer Namespace

---

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**Registry Class**

**Valid TaskActions are:**

*CheckEmpty* (**Required:** RegistryHive, Key **Optional:** RegistryView
**Output:** Empty)

*CheckValueExists* (**Required:** RegistryHive, Key, Value **Optional:** RegistryView
**Output:** Empty (true iff the value does not exist))

*CreateKey* (**Required:** RegistryHive, Key **Optional:** RegistryView)

*DeleteKey* (**Required:** RegistryHive, Key **Optional:** RegistryView)

*DeleteKeyTree* (**Required:** RegistryHive, Key **Optional:** RegistryView)

*DeleteValue* (**Required:** RegistryHive, Key, Value **Optional:**
RegistryView **Output:** Empty (true iff the Delete was redundant))

*Get* (**Required:** RegistryHive, Key, Value **Optional:** RegistryView
**Output:** Data)

*Set* (**Required:** RegistryHive, Key, Value **Optional:** DataType, RegistryView)

**Remote Execution Support:** Yes

**Inheritance Hierarchy**

   MSBuild.ExtensionPackBaseTask
   MSBuild.ExtensionPack.ComputerRegistry

**Namespace:** MSBuild.ExtensionPack.Computer

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The **Registry** type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registry</td>
<td></td>
</tr>
</tbody>
</table>

Top
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data</td>
<td>Gets the data.</td>
</tr>
<tr>
<td>DataType</td>
<td>Sets the type of the data. RegistryValueKind Enumeration. Support for Binary, DWord, MultiString, QWord, ExpandString</td>
</tr>
<tr>
<td>Empty</td>
<td>Indicates whether the Registry Key is empty or not</td>
</tr>
<tr>
<td>Exists</td>
<td>Indicates whether the Registry value exists</td>
</tr>
<tr>
<td>Key</td>
<td>Sets the key.</td>
</tr>
<tr>
<td>RegistryHive</td>
<td>Sets the Registry Hive. Supports ClassesRoot, CurrentUser, LocalMachine, Users, PerformanceData, CurrentConfig, DynData</td>
</tr>
<tr>
<td>RegistryView</td>
<td>Sets the Registry View. Supports Registry32, Registry64 and Default. Defaults to Default</td>
</tr>
<tr>
<td>Value</td>
<td>Sets the value. If Value is not provided, an attempt will be made to read the Default Value.</td>
</tr>
</tbody>
</table>

## Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks')"/>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- Create a key -->
    <!-- Check if a key is empty -->
      <Output PropertyName="REmpty" TaskParameter = "REmpty"/>
    <Message Text="SOFTWARE\ANewTemp is empty: $REmpty"/>
    <!-- Set a value -->
    <!-- Check if the value exists -->
  </Target>
</Project>
```
  <Output PropertyName="RExists" TaskParameter/>
<Message Text="SOFTWARE\ANewTemp\@MySetting">
  <!-- Get the value out -->
    <Output PropertyName="RData" TaskParameter/>
  <Message Text="Registry Value: $(RData)"/>
  <!-- Check if a key is empty again -->
    <Output PropertyName="REmpty" TaskParameter/>
  <Message Text="SOFTWARE\ANewTemp is empty: $(REmpty)"/>
  <!-- Set some Binary Data -->
    <!-- Get some Binary Data-->
    <Output PropertyName="RData" TaskParameter/>
  <Message Text="Registry Value: $(RData)"/>
  <!-- Delete a value -->
    <!-- Delete a key -->
</Target>
</Project>

See Also
Reference
MSBuild.ExtensionPack.Computer Namespace

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Registry Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Registry Class
MSBuild.ExtensionPack.Computer Namespace

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The **Registry** type exposes the following members.

## Properties

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<td>RegistryView</td>
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</tr>
</tbody>
</table>

Top

**See Also**

**Reference**

Registry Class

MSBuild.ExtensionPack.Computer Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**RegistryData Property**  
MSBuild Extension Pack Help 4.0.12.0

Gets the data.

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

---

**See Also**

**Reference**  
Registry Class  
MSBuild.ExtensionPack.Computer Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
RegistryDataType Property

Sets the type of the data. RegistryValueKind Enumeration. Support for Binary, DWord, MultiString, QWord, ExpandString


See Also

Reference
Registry Class
MSBuild.ExtensionPack.Computer Namespace

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**RegistryEmpty Property**  MSBuild Extension Pack Help 4.0.12.0

Indicates whether the Registry Key is empty or not

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

Registry Class  
MSBuild.ExtensionPack.Computer Namespace

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RegistryExists Property  MSBuild Extension Pack Help 4.0.12.0

Indicates whether the Registry value exists

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Registry Class
MSBuild.ExtensionPack.Computer Namespace

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RegistryKey Property

Sets the key.

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

### See Also

- Registry Class  

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RegistryHive Property

Sets the Registry Hive. Supports ClassesRoot, CurrentUser, LocalMachine, Users, PerformanceData, CurrentConfig, DynData

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Registry Class
MSBuild.ExtensionPack.Computer Namespace

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**Registry**

**RegistryView Property**

Sets the Registry View. Supports Registry32, Registry64 and Default. Defaults to Default

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

### See Also

**Reference**

**Registry Class**

**MSBuild.ExtensionPack.Computer Namespace**

---

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See Also

Reference
Registry Class
MSBuild.ExtensionPack.Computer Namespace

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SystemDrive Class

Valid TaskActions are:

CheckDriveSpace *(Required: Drive, MinSpace Optional: Unit)*

GetDrives *(Optional: SkipDrives, Unit Output: Drives)*

Remote Execution Support: Yes

Inheritance Hierarchy


Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The **SystemDrive** type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🔄 SystemDrive</td>
<td></td>
</tr>
</tbody>
</table>

Top

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🔄 Drive</td>
<td>Sets the drive.</td>
</tr>
</tbody>
</table>
| 🔄 Drives | Sets the drives. ITaskItem  
Identity: Name  
Metadata: Name, VolumeLabel, AvailableFreeSpace, DriveFormat, TotalSize, TotalFreeSpace, IsReady (LocalMachine only), RootDirectory (LocalMachine only) |
| 🔄 MinSpace | Sets the min space. |
| 🔄 SkipDrives | Sets the drives to skip. ITaskItem |
Sets the unit. Supports Kb, Mb(default), Gb, Tb

Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\.\MSBuild.ExtensionPack.tasks
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\.\Common\MSBuild.ExtensionPack.tasks')"
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <ItemGroup>
    <DrivesToSkip Include="A:"/>
  </ItemGroup>
  <Target Name="Default">
    <!-- Check drive space -->
    <!-- Check drive space on a remote machine
      <Output TaskParameter="Drives" ItemName="SystemDrivesRemote"
    <!-- Check drive space using different unit
    <!-- Get the drives on a machine -->
      <Output TaskParameter="Drives" ItemName="SystemDrives"
  </Target>
</Project>
```

See Also

Reference

MSBuild.ExtensionPack.Computer Namespace
**SystemDrive Constructor** MSBuild Extension Pack Help 4.0.12.0

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

**See Also**

**Reference**
- SystemDrive Class

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The `SystemDrive` type exposes the following members.

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive</td>
<td>Sets the drive.</td>
</tr>
<tr>
<td>Drives</td>
<td>Sets the drives. ITaskItem Identity: Name Metadata: Name, VolumeLabel, AvailableFreeSpace, DriveFormat, TotalSize, TotalFreeSpace, IsReady (LocalMachine only), RootDirectory (LocalMachine only)</td>
</tr>
<tr>
<td>MinSpace</td>
<td>Sets the min space.</td>
</tr>
<tr>
<td>SkipDrives</td>
<td>Sets the drives to skip. ITaskItem</td>
</tr>
<tr>
<td>Unit</td>
<td>Sets the unit. Supports Kb, Mb (default), Gb, Tb</td>
</tr>
</tbody>
</table>

### See Also

**Reference**

- `SystemDrive Class`
SystemDrive

Property

Sets the drive.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

SystemDrive Class
MSBuild.ExtensionPack.Computer Namespace

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**SystemDriveDrives Property**

Sets the drives. ITaskItem

Identity: Name

Metadata: Name, VolumeLabel, AvailableFreeSpace, DriveFormat, TotalSize, TotalFreeSpace, IsReady (LocalMachine only), RootDirectory (LocalMachine only)

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

SystemDrive Class  
MSBuild.ExtensionPack.Computer Namespace

---

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SystemDriveMinSpace Property

Sets the min space.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
SystemDrive Class
MSBuild.ExtensionPack.Computer Namespace
SystemDriveSkipDrives Property

Sets the drives to skip. ITaskItem

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
SystemDrive Class
MSBuild.ExtensionPack.Computer Namespace

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SystemDriveUnit Property

Sets the unit. Supports Kb, Mb(default), Gb, Tb

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
SystemDrive Class
MSBuild.ExtensionPack.Computer Namespace

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**WindowsService Class**

MSBuild Extension Pack Help 4.0.12.0

**Valid TaskActions are:**

*CheckExists* (**Required**: ServiceName **Optional**: MachineName, RemoteUser, RemoteUserPassword **Output**: Exists)

*Delete* (**Required**: ServiceName **Optional**: MachineName)

*Disable* (**Required**: ServiceName **Optional**: MachineName)

*Install* (**Required**: ServiceName, ServicePath, User**Optional**: Force, StartupType, CommandLineArguments, Description, ServiceDependencies, ServiceDisplayName, MachineName, RemoteUser, RemoteUserPassword)

*Restart* (**Required**: ServiceName **Optional**: MachineName). Any running directly dependent services will be restarted too.

*SetAutomatic* (**Required**: ServiceName **Optional**: MachineName)

*SetManual* (**Required**: ServiceName **Optional**: MachineName)

*Start* (**Required**: ServiceName or Services **Optional**: MachineName, RetryAttempts)

*Stop* (**Required**: ServiceName or Services **Optional**: MachineName, RetryAttempts)

*Uninstall* (**Required**: ServicePath **Optional**: MachineName, RemoteUser, RemoteUserPassword)

*UpdateIdentity* (**Required**: ServiceName, User, Password **Optional**: MachineName)

**Remote Execution Support**: Yes

**Inheritance Hierarchy**

SystemObject  Microsoft.Build.UtilitiesTask
   MSBuild.ExtensionPackBaseTask

**Namespace**: MSBuild.ExtensionPack.Computer

**Assembly**: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0
The **WindowsService** type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WindowsService</td>
<td></td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CommandLineArguments</td>
<td>Sets the command line arguments to be passed to the service</td>
</tr>
<tr>
<td>Description</td>
<td>Sets the service description</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the service exists</td>
</tr>
<tr>
<td>Force</td>
<td>Sets a value indicating whether to delete a service if it already exists when calling Install</td>
</tr>
<tr>
<td>Password</td>
<td>Sets user password</td>
</tr>
<tr>
<td>RemoteUser</td>
<td>Sets the user to impersonate on remote server</td>
</tr>
<tr>
<td>RemoteUserPassword</td>
<td>Sets the password for the user to impersonate on remote server</td>
</tr>
<tr>
<td>RetryAttempts</td>
<td>Sets the number of times to attempt Starting / Stopping a service. Default is 60.</td>
</tr>
<tr>
<td>ServiceDependencies</td>
<td>Sets the services upon which the installed service depends</td>
</tr>
<tr>
<td>ServiceDisplayName</td>
<td>The Display Name of the service. Defaults to ServiceName.</td>
</tr>
<tr>
<td>ServiceName</td>
<td>The Name of the service. Note, this is the 'Service Name' as displayed in services.msc, NOT the 'Display Name'</td>
</tr>
<tr>
<td>ServicePath</td>
<td>Sets the path of the service executable</td>
</tr>
<tr>
<td>Services</td>
<td>Sets the collection of Services to target in parallel. See TaskAction parameters for which TaskActions support this.</td>
</tr>
<tr>
<td>StartupType</td>
<td>Sets the Startup Type of the service.</td>
</tr>
<tr>
<td>User</td>
<td>Sets the user.</td>
</tr>
</tbody>
</table>

### Examples
<Project ToolsVersion="4.0" DefaultTargets="Default">

<PropertyGroup>
  <TPath>$(MSBuildProjectDirectory)\.\..\MSBuild.ExtensionPack.tasks</TPath>
  <User>serviceAcct</User>
  <Password>P2ssw0rd</Password>
  <RemoteMachine>VSTS2008</RemoteMachine>
  <RemoteUser>vsts2008\tfssetup</RemoteUser>
  <RemoteUserPassword>1Setuptfs</RemoteUserPassword>
</PropertyGroup>

<Import Project="$(TPath)"/>

<Target Name="Default">
  <!-- check whether a service exists (this should return true in most cases) -->
    <Output TaskParameter="Exists" Property="DoesExist" />
    <Message Text="Schedule service exists: $(DoesExist)" />
  <!-- check whether another service exists (this should return false) -->
    <Output TaskParameter="Exists" Property="DoesExist" />
    <Message Text="ThisServiceShouldNotExist service exists: $(DoesExist)" />
  <!-- Check whether a service exists on a Remote Machine (this should return true in most cases) -->
    <Output TaskParameter="Exists" Property="DoesExist" />
    <Message Text="Schedule service exists on '$(RemoteMachine)': $(DoesExist)" />
  <!-- Start a service -->
    <!-- Start a service on a Remote Machine -->
      <!-- Stop a service -->
        <!-- Stop a service on a Remote Machine -->
          <!-- Uninstall a service on the Local Machine -->
            <!-- Uninstall a service on a Remote Machine -->
</Target>
</Project>
<!-- Install a service on the Local machine -->

<!-- Install a service on a Remote Machine -->

<!-- Disable a service -->

<!-- Disable a service on a Remote Machine -->

<!-- Set a service to start automatically -->

<!-- Set a service to start automatically on a Remote Machine -->

<!-- Set a service to start manually -->

<!-- Set a service to start manually on a Remote Machine -->

<!-- Update the Identity that the service runs in -->

<!-- Update the Identity that the service on a Remote Machine runs in -->

</Target>
</Project>

See Also

Reference
MSBuild.ExtensionPack.Computer Namespace

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WindowsService Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
WindowsService Class
MSBuild.ExtensionPack.Computer Namespace

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The **WindowsService** type exposes the following members.

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<tr>
<th>Name</th>
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<td>Sets a value indicating whether to delete a service if it already exists when calling Install</td>
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**Top**

### See Also

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**WindowsService Class**
<table>
<thead>
<tr>
<th>MSBuild.ExtensionPack.Computer Namespace</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Copyright © 2015</strong> <a href="http://www.MSBuildExtensionPack.com">http://www.MSBuildExtensionPack.com</a>. All rights reserved.</td>
</tr>
<tr>
<td>Send comments on this topic to [MSBuild ExtensionPack Feedback](mailto:MSBuild ExtensionPack Feedback)</td>
</tr>
</tbody>
</table>
WindowsServiceCommandLineArguments Property

Sets the command line arguments to be passed to the service.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
WindowsService Class
MSBuild.ExtensionPack.Computer Namespace

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WindowsServiceDescription Property

Sets the service description

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
WindowsService Class
MSBuild.ExtensionPack.Computer Namespace

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WindowsServiceExists Property

Gets whether the service exists

**Namespace:** MSBuild.ExtensionPack.Computer
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

See Also

See Also Reference

WindowsService Class
MSBuild.ExtensionPack.Computer Namespace

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WindowsServiceForce Property

Sets a value indicating whether to delete a service if it already exists when calling Install

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
WindowsService Class
MSBuild.ExtensionPack.Computer Namespace

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WindowsServicePassword Property

Sets user password

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
WindowsService Class
MSBuild.ExtensionPack.Computer Namespace

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**WindowsServiceRemoteUser**

Sets the user to impersonate on remote server.

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

## See Also

Reference

- WindowsService Class
WindowsServiceRemoteUserPassword Property

Sets the password for the user to impersonate on remote server.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
WindowsService Class
MSBuild.ExtensionPack.Computer Namespace

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See Also

Reference

WindowsService Class
MSBuild.ExtensionPack.Computer Namespace

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**WindowsServiceServiceDependencies**

Sets the services upon which the installed service depends.

**Namespace:** MSBuild.ExtensionPack.Computer

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

**Reference**

WindowsService Class

MSBuild.ExtensionPack.Computer Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**WindowsServiceServiceDisplayName Property**

The Display Name of the service. Defaults to ServiceName.

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

*WindowsService Class*
*MSBuild.ExtensionPack.Computer Namespace*

---

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WindowsServiceServiceName Property

The Name of the service. Note, this is the 'Service Name' as displayed in services.msc, NOT the 'Display Name'

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also

Reference

WindowsService Class
MSBuild.ExtensionPack.Computer Namespace

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WindowsService\ServicePath Property

Sets the path of the service executable

**Namespace:** MSBuild.ExtensionPack.Computer
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

---

See Also

- Reference
  - WindowsService Class

---

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**WindowsService** Services

*Property*

Sets the collection of Services to target in parallel. See TaskAction parameters for which TaskActions support this.

**Namespace:** MSBuild.ExtensionPack.Computer

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

Reference

WindowsService Class

MSBuild.ExtensionPack.Computer Namespace

---

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**WindowsServiceStartupType**

Sets the Startup Type of the service.

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

- WindowsService Class

---

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**WindowsServiceUser**

**Property**

Sets the user.

**Namespace:** `MSBuild.ExtensionPack.Computer`  
**Assembly:** `MSBuild.ExtensionPack` (in `MSBuild.ExtensionPack.dll`)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

- `WindowsService Class`  

---

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WshShell Class

Valid TaskActions are:

CreateShortcut (Required: Name, FilePath Optional: Arguments, ShortcutPath, Description, WorkingDirectory, IconLocation)

Remote Execution Support: No

Inheritance Hierarchy


Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The WshShell type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WshShell</td>
<td></td>
</tr>
</tbody>
</table>

Top

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arguments</td>
<td>Sets the Arguments for the shortcut</td>
</tr>
<tr>
<td>Description</td>
<td>Sets the Description. For CreateShortcut defaults to 'Launch [Name]'</td>
</tr>
<tr>
<td>FilePath</td>
<td>Sets the FilePath</td>
</tr>
<tr>
<td>IconLocation</td>
<td>Sets the IconLocation</td>
</tr>
<tr>
<td>Name</td>
<td>Sets the Name</td>
</tr>
<tr>
<td>ShortcutPath</td>
<td>Sets the ShortcutPath. For CreateShortcut defaults defaults to Desktop of the current user</td>
</tr>
<tr>
<td>WindowStyle</td>
<td>Sets the WindowStyle.</td>
</tr>
</tbody>
</table>
Examples

1 - Activates and displays a window. If the window is minimized or maximized, the system restores it to its original size and position.

3 - Activates the window and displays it as a maximized window.

7 - Minimizes the window and activates the next top-level window.

| WorkingDirectory | Sets the WorkingDirectory |

Top

### Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\..\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\.\Common\MSBuild.ExtensionPack.tasks')"/>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- Create a shortcut -->
    <MSBuild.ExtensionPack.Computer.WshShell TaskAction="CreateShortcut" SourcePath="$(TPath)" TargetPath="..." TargetName="...">
      <Parameter Name="ShortcutName" Value="..."/>
      <Parameter Name="Icon" Value="..."/>
      <Parameter Name="Description" Value="..."/>
  </Target>
</Project>
```

See Also

Reference

MSBuild.ExtensionPack.Computer Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**WshShell Constructor**  
MSBuild Extension Pack Help 4.0.12.0

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**
- WshShell Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
The **WshShell** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Arguments</strong></td>
<td>Sets the Arguments for the shortcut</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Sets the Description. For CreateShortcut defaults to 'Launch [Name]'</td>
</tr>
<tr>
<td><strong>FilePath</strong></td>
<td>Sets the FilePath</td>
</tr>
<tr>
<td><strong>IconLocation</strong></td>
<td>Sets the IconLocation</td>
</tr>
<tr>
<td><strong>Name</strong></td>
<td>Sets the Name</td>
</tr>
<tr>
<td><strong>ShortcutPath</strong></td>
<td>Sets the ShortcutPath. For CreateShortcut defaults to Desktop of the current user</td>
</tr>
</tbody>
</table>
| **WindowStyle** | Sets the WindowStyle.  
1 - Activates and displays a window. If the window is minimized or maximized, the system restores it to its original size and position.  
3 - Activates the window and displays it as a maximized window.  
7 - Minimizes the window and activates the next top-level window. |
| **WorkingDirectory** | Sets the WorkingDirectory                                                      |

## See Also

**Reference**

- **WshShell Class**
- **MSBuild.ExtensionPack.Computer Namespace**

---

---

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**WshShellArguments Property**

Sets the Arguments for the shortcut

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference  
**WshShell Class**  
**MSBuild.ExtensionPack.Computer Namespace**

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
WshShellDescription Property

Sets the Description. For CreateShortcut defaults to 'Launch [Name]'

**Namespace:** MSBuild.ExtensionPack.Computer

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

See Also

**Reference**

WshShell Class

MSBuild.ExtensionPack.Computer Namespace

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**WshShellFilePath Property**

Sets the FilePath

**Namespace:** MSBuild.ExtensionPack.Computer

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

Reference

WshShell Class

MSBuild.ExtensionPack.Computer Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
WshShellIconLocation

Property

Sets the IconLocation

**Namespace:** MSBuild.ExtensionPack.Computer

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

Reference

WshShell Class

MSBuild.ExtensionPack.Computer Namespace

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**WshShellName Property**  MSBuild Extension Pack Help 4.0.12.0

Sets the Name

**Namespace:** MSBuild.ExtensionPack.Computer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
WshShell Class  
MSBuild.ExtensionPack.Computer Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
WshShellShortcutPath Property

Sets the ShortcutPath. For CreateShortcut defaults to Desktop of the current user

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
WshShell Class
MSBuild.ExtensionPack.Computer Namespace

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WshShellWindowStyle Property

Sets the WindowStyle.

1 - Activates and displays a window. If the window is minimized or maximized, the system restores it to its original size and position.

3 - Activates the window and displays it as a maximized window.

7 - Minimizes the window and activates the next top-level window.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
WshShell Class
MSBuild.ExtensionPack.Computer Namespace

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**WshShellWorkingDirectory Property**

Sets the WorkingDirectory

**Namespace:** MSBuild.ExtensionPack.Computer

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

---

**See Also**

Reference

- WshShell Class

---

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Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
</table>
| Data        | **Valid TaskActions are:**<br>
  *Import (Required: OrganizationUrl, DataMapName, FilePath, SourceEntityName, TargetEntityName Optional: Overwrite, ConnectionTimeout)* |
| DataMap     | **Valid TaskActions are:**<br>
  *Import (Required: OrganizationUrl, Name, FilePath Optional: Overwrite, ConnectionTimeout)*<br>
  *Delete (Required: OrganizationUrl, Name)* |
| Organization| **Valid TaskActions are:**<br>
  *Create (Required: DeploymentUrl, DisplayName, Name, SqlServerInstance, SrsUrl Optional: Timeout, ConnectionTimeout)*<br>
  *UpdateSettings (Required: OrganizationUrl, Settings) Optional ConnectionTimeout* |
| Solution    | **Valid TaskActions are:**<br>
  *Import (Required: OrganizationUrl, Name, Extension Optional: Path, OverwriteCustomizations, EnableSDKProcessingSteps, ConnectionTimeout)*<br>
  *Export (Required: OrganizationUrl, Name, Extension Optional: Path, ExportAsManagedSolution, ConnectionTimeout)*<br>
  *GetVersion (Required: OrganizationUrl Optional: ConnectionTimeout)*<br>
  *SetVersion (Required: OrganizationUrl, Version Optional ConnectionTimeout)* |
Valid TaskActions are:

Import (Required: OrganizationUrl, DataMapName, FilePath,
SourceEntityName, TargetEntityName Optional: Overwrite,
ConnectionTimeout)

Inheritance Hierarchy

SystemObject  Microsoft.Build.UtilitiesTask
               MSBuild.ExtensionPackBaseTask
               MSBuild.ExtensionPack.CrmData


The Data type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data</td>
<td></td>
</tr>
</tbody>
</table>

Top

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ConnectionTimeout</td>
<td>Gets or sets the timeout in minutes for connecting to Crm Service. Default is 3 minutes.</td>
</tr>
<tr>
<td>DataMapName</td>
<td>Sets the Name of the data map.</td>
</tr>
<tr>
<td>FilePath</td>
<td>Sets the DataMap import file path.</td>
</tr>
<tr>
<td>OrganizationUrl</td>
<td>Sets the Url of the Organization, whose setting needs to be changed.</td>
</tr>
<tr>
<td>SourceEntityName</td>
<td>Sets the name of the source entity where the data file was produced from.</td>
</tr>
<tr>
<td>TargetEntityName</td>
<td>Sets the name of the target entity where the data imported to.</td>
</tr>
<tr>
<td>Timeout</td>
<td>The time in minutes for which the task would wait for the new</td>
</tr>
</tbody>
</table>
organization to be created. Default is 20.

Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\MSBuild.ExtensionPack.tasks
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\Common\MSBuild.ExtensionPack.tasks')">
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- Import a data file -->
  </Target>
</Project>
```

See Also

Reference

MSBuild.ExtensionPack.Crm Namespace

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Data Constructor


See Also

Reference
Data Class
MSBuild.ExtensionPack.Crm Namespace

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The **Data** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ConnectionTimeout</td>
<td>Gets or sets the timeout in minutes for connecting to Crm Service. Default is 3 minutes.</td>
</tr>
<tr>
<td>DataMapName</td>
<td>Sets the Name of the data map.</td>
</tr>
<tr>
<td>FilePath</td>
<td>Sets the DataMap import file path.</td>
</tr>
<tr>
<td>OrganizationUrl</td>
<td>Sets the Url of the Organization, whose setting needs to be changed.</td>
</tr>
<tr>
<td>SourceEntityName</td>
<td>Sets the name of the source entity where the data file was produced from.</td>
</tr>
<tr>
<td>TargetEntityName</td>
<td>Sets the name of the target entity where the data imported to.</td>
</tr>
<tr>
<td>Timeout</td>
<td>The time in minutes for which the task would wait for the new organization to be created. Default is 20.</td>
</tr>
</tbody>
</table>

## See Also

**Reference**

**Data Class**

MSBuild.ExtensionPack.Crm Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
DataConnectionTimeout Property

Gets or sets the timeout in minutes for connecting to Crm Service. Default is 3 minutes.


See Also

Reference
Data Class
MSBuild.ExtensionPack.Crm Namespace

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**DataMapName Property**

Sets the Name of the data map.

**Namespace:** MSBuild.ExtensionPack.Crm  

**See Also**

Reference  
Data Class  
MSBuild.ExtensionPack.Crm Namespace

---

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DataFilePath Property

Sets the DataMap import file path.


See Also

Reference
Data Class
MSBuild.ExtensionPack.Crm Namespace

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DataOrganizationUrl Property

Sets the Url of the Organization, whose setting needs to be changed.

**Namespace:** MSBuild.ExtensionPack.Crm  

**See Also**

Reference  
Data Class  
MSBuild.ExtensionPack.Crm Namespace

---

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**DataSourceEntityName**

Sets the name of the source entity where the data file was produced from.

**Namespace:** MSBuild.ExtensionPack.Crm  

---

**See Also**

Reference

Data Class  
MSBuild.ExtensionPack.Crm Namespace

---

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**DataTargetEntityName Property**

Sets the name of the target entity where the data imported to.

**Namespace:** MSBuild.ExtensionPack.Crm  

---

**See Also**  
Reference  
Data Class  
MSBuild.ExtensionPack.Crm Namespace

---

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**DataTimeout Property**

The time in minutes for which the task would wait for the new organization to be created. Default is 20.

**Namespace:** MSBuild.ExtensionPack.Crm  

---

**See Also**

Reference
- Data Class
- MSBuild.ExtensionPack.Crm Namespace

---

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DataMap Class

Valid TaskActions are:

Import (Required: OrganizationUrl, Name, FilePath Optional: Overwrite, ConnectionTimeout)

Delete (Required: OrganizationUrl, Name)

Inheritance Hierarchy

SystemObject  Microsoft.Build.UtilitiesTask  
MSBuild.ExtensionPackBaseTask  
MSBuild.ExtensionPack.CrmDataMap


The DataMap type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DataMap</td>
<td></td>
</tr>
</tbody>
</table>

Top

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ConnectionTimeout</td>
<td>Gets or sets the timeout in minutes for connecting to Crm Service. Default is 3 minutes.</td>
</tr>
<tr>
<td>FilePath</td>
<td>Sets the Data Map import file path.</td>
</tr>
<tr>
<td>Name</td>
<td>Sets the Name of the Data Map.</td>
</tr>
<tr>
<td>OrganizationUrl</td>
<td>Sets the Url of the Organization, whose setting needs to be changed.</td>
</tr>
<tr>
<td>Overwrite</td>
<td>Sets whether to overwrite existing Data Map. Default is true</td>
</tr>
</tbody>
</table>

Top
Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"
     xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\..\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\.\Common\MSBuild.ExtensionPack.tasks')" />
  </PropertyGroup>
  <Import Project="$(TPath)" />
  <Target Name="Default">
    <!-- Import a Data Map -->
  </Target>
  <Target Name="Delete">
    <!-- Delete a Data Map -->
  </Target>
</Project>
```

See Also

Reference

MSBuild.ExtensionPack.Crm Namespace

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DataMap Constructor


See Also
Reference
DataMap Class
MSBuild.ExtensionPack.Crm Namespace

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DataMap Properties

The DataMap type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ConnectionTimeout</td>
<td>Gets or sets the timeout in minutes for connecting to Crm Service. Default is 3 minutes.</td>
</tr>
<tr>
<td>FilePath</td>
<td>Sets the Data Map import file path.</td>
</tr>
<tr>
<td>Name</td>
<td>Sets the Name of the Data Map.</td>
</tr>
<tr>
<td>OrganizationUrl</td>
<td>Sets the Url of the Organization, whose setting needs to be changed.</td>
</tr>
<tr>
<td>Overwrite</td>
<td>Sets whether to overwrite existing Data Map. Default is true</td>
</tr>
</tbody>
</table>

See Also

Reference

DataMap Class

MSBuild.ExtensionPack.Crm Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
DataMapConnectionTimeout Property

Gets or sets the timeout in minutes for connecting to Crm Service. Default is 3 minutes.


See Also

Reference

DataMap Class
MSBuild.ExtensionPack.Crm Namespace

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DataMapFilePath Property

Sets the Data Map import file path.

**Namespace:** MSBuild.ExtensionPack.Crm


See Also

Reference

DataMap Class
MSBuild.ExtensionPack.Crm Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**DataMapName Property**  MSBuild Extension Pack Help 4.0.12.0

Sets the Name of the Data Map.

**Namespace:** MSBuild.ExtensionPack.Crm


See Also

Reference

DataMap Class

MSBuild.ExtensionPack.Crm Namespace

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DataMapOrganizationUrl Property

Sets the Url of the Organization, whose setting needs to be changed.


See Also

Reference
DataMap Class
MSBuild.ExtensionPack.Crm Namespace

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**DataMapOverwrite Property**

Sets whether to overwrite existing Data Map. Default is true

**Namespace:** MSBuild.ExtensionPack.Crm  

---

**See Also**

Reference  
DataMap Class  
MSBuild.ExtensionPack.Crm Namespace

---

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**Organization Class**  

**Valid TaskActions are:**

Create (Required: DeploymentUrl, DisplayName, Name, SqlServerInstance, SsrsUrl)  
Optional: Timeout, ConnectionTimeout

UpdateSettings (Required: OrganizationUrl, Settings)  
Optional: ConnectionTimeout

**Inheritance Hierarchy**

SystemObject  
Microsoft.Build.UtilitiesTask  
MSBuild.ExtensionPackBaseTask  
MSBuild.ExtensionPack.CrmOrganization

**Namespace:** MSBuild.ExtensionPack.Crm  
**Version:** 4.0.0.0

The **Organization** type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Organization</td>
<td></td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
</table>
| ConnectionTimeout | Gets or sets the timeout in minutes for connecting to Crm Service.  
| Default is 3 minutes. |
| DeploymentUrl    | Sets the Url of the Microsoft Dynamics Crm Deployment Service                 |
| DisplayName      | Sets the Display name of the Organization                                    |
| Name             | Sets the Name of the Organization                                             |
| OrganizationUrl  | Sets the Url of the Organization, whose setting needs to be changed.         |
| Settings         | Sets the Organization settings to update.                                    |
SqlServerInstance
Sets the name of the SQL Server instance that will host the database of the new Organization

SsrsUrl
Sets the SSRS Url for the new Organization that is created.

Timeout
The time in minutes for which the task would wait for the new Organization to be created. Default is 20.

Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
    <PropertyGroup>
        <TPath>$(MSBuildProjectDirectory)\.\..\MSBuild</TPath>
        <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\.Common\MSBuild.ExtensionPack.tasks')"/>
    </PropertyGroup>
    <Import Project="$(TPath)"/>
    <Target Name="Default">
        <!-- Create an Organization -->
    </Target>
    <Target Name="UpdateSettings">
        <!-- Update an Organization's Settings -->
        <ItemGroup>
            <Settings Include="pricingdecimalprecision">
                <Value>2</Value>
            </Settings>
            <Settings Include="localeid">
                <Value>2057</Value>
            </Settings>
            <Settings Include="isauditenabled">
                <Value>false</Value>
            </Settings>
        </ItemGroup>
    </Target>
</Project>
```
Organization Constructor

**Namespace:** MSBuild.ExtensionPack.Crm  

**See Also**
- Organization Class
- MSBuild.ExtensionPack.Crm Namespace

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**Organization Properties**  
MSBuild Extension Pack Help 4.0.12.0

The **Organization** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ConnectionTimeout</td>
<td>Gets or sets the timeout in minutes for connecting to Crm Service. Default is 3 minutes.</td>
</tr>
<tr>
<td>DeploymentUrl</td>
<td>Sets the Url of the Microsoft Dynamics Crm Deployment Service</td>
</tr>
<tr>
<td>DisplayName</td>
<td>Sets the Display name of the Organization</td>
</tr>
<tr>
<td>Name</td>
<td>Sets the Name of the Organization</td>
</tr>
<tr>
<td>OrganizationUrl</td>
<td>Sets the Url of the Organization, whose setting needs to be changed.</td>
</tr>
<tr>
<td>Settings</td>
<td>Sets the Organization settings to update.</td>
</tr>
<tr>
<td>SqlServerInstance</td>
<td>Sets the name of the SQL Server instance that will host the database of the new Organization</td>
</tr>
<tr>
<td>SsrsUrl</td>
<td>Sets the SSRS Url for the new Organization that is created.</td>
</tr>
<tr>
<td>Timeout</td>
<td>The time in minutes for which the task would wait for the new Organization to be created. Default is 20.</td>
</tr>
</tbody>
</table>

**Top**

**See Also**

**Reference**

**Organization Class**

**MSBuild.ExtensionPack.Crm Namespace**

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**OrganizationConnectionTimeout Property**

Gets or sets the timeout in minutes for connecting to Crm Service. Default is 3 minutes.

**Namespace:** MSBuild.ExtensionPack.Crm  

---

**See Also**

Reference

Organization Class
MSBuild.ExtensionPack.Crm Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**OrganizationDeploymentUrl Property**

Sets the URL of the Microsoft Dynamics Crm Deployment Service

**Namespace:** MSBuild.ExtensionPack.Crm  

**See Also**

*Reference*

Organization Class  
MSBuild.ExtensionPack.Crm Namespace

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**OrganizationDisplayName Property**

Sets the Display name of the Organization

**Namespace:** MSBuild.ExtensionPack.Crm  

**See Also**

Reference  
Organization Class  
MSBuild.ExtensionPack.Crm Namespace

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OrganizationName Property

Sets the Name of the Organization.

Namespace: **MSBuild.ExtensionPack.Crm**

See Also

Reference

Organization Class
MSBuild.ExtensionPack.Crm Namespace

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Send comments on this topic to [MSBuild ExtensionPack Feedback](mailto:MSBuildExtensionPackFeedback@domain.com)
**OrganizationOrganizationUrl Property**

Sets the Url of the Organization, whose setting needs to be changed.

**Namespace:** MSBuild.ExtensionPack.Crm  

**See Also**

- [Organization Class](#)
- [MSBuild.ExtensionPack.Crm Namespace](#)

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**OrganizationSettings Property**

Sets the Organization settings to update.

**Namespace:** MSBuild.ExtensionPack.Crm  

**See Also**

Reference

Organization Class  
MSBuild.ExtensionPack.Crm Namespace

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OrganizationSqlServerInstance Property

Sets the name of the SQL Server instance that will host the database of the new Organization


See Also
Reference
Organization Class
MSBuild.ExtensionPack.Crm Namespace

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OrganizationSsrsUrl Property

Sets the SSRS Url for the new Organization that is created.


See Also
Reference
Organization Class
MSBuild.ExtensionPack.Crm Namespace

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OrganizationTimeout Property

The time in minutes for which the task would wait for the new Organization to be created. Default is 20.


See Also
Reference
Organization Class
MSBuild.ExtensionPack.Crm Namespace

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Solution Class

Valid TaskActions are:

Import (Required: OrganizationUrl, Name, Extension Optional: Path, OverwriteCustomizations, EnableSDKProcessingSteps, ConnectionTimeout)

Export (Required: OrganizationUrl, Name, Extension Optional: Path, ExportAsManagedSolution, ConnectionTimeout)

GetVersion (Required: OrganizationUrl Optional: ConnectionTimeout)

SetVersion (Required: OrganizationUrl, Version Optional ConnectionTimeout)

Inheritance Hierarchy


The Solution type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solution</td>
<td></td>
</tr>
</tbody>
</table>

Top

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ConnectionTimeout</td>
<td>Gets or sets the timeout in minutes for connecting to Crm Service. Default is 3 minutes.</td>
</tr>
<tr>
<td>EnableSdkProcessingSteps</td>
<td>Sets whether to enable any SDK message processing steps included in the Solution. Default is true.</td>
</tr>
<tr>
<td>ExportAsManagedSolution</td>
<td>Sets whether the Solution to be exported as a managed Solution. Default is true.</td>
</tr>
<tr>
<td>Extension</td>
<td>Sets the extension of the Solution file for import or export.</td>
</tr>
<tr>
<td>-----------</td>
<td>--------------------------------------------------------------</td>
</tr>
<tr>
<td>Name</td>
<td>Sets the Name of the Solution. While exporting the Solution file will be named same as the Solution's name.</td>
</tr>
<tr>
<td>OrganizationUrl</td>
<td>Sets the Url of the Organization, where the Solution is imported to.</td>
</tr>
<tr>
<td>OverwriteCustomizations</td>
<td>Sets whether to overwrite any unmanaged customizations or not. Default is true.</td>
</tr>
<tr>
<td>Path</td>
<td>Sets the directory path where the Solution is imported or exported to. If a path is not set, the file is read or written from the MSBuild script's directory path.</td>
</tr>
<tr>
<td>Version</td>
<td>Sets the Version of the Solution.</td>
</tr>
</tbody>
</table>

**Examples**

```
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks')" />
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- Import a Solution to the given Organization -->
  </Target>
  <Target Name="Export">
    <!-- Export a Solution as an managed or unmanaged Solution -->
  </Target>
  <Target Name="GetVersion">
    <!-- GetVersion for a Solution -->
      <Output TaskParameter="Version" Property />
  </Target>
</Project>
```
See Also

Reference

MSBuild.ExtensionPack.Crm Namespace

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**Solution Constructor**

**Namespace:** MSBuild.ExtensionPack.Crm  

---

**See Also**

Reference  
Solution Class  
MSBuild.ExtensionPack.Crm Namespace

---

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The **Solution** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ConnectionTimeout</strong></td>
<td>Gets or sets the timeout in minutes for connecting to Crm Service. Default is 3 minutes.</td>
</tr>
<tr>
<td><strong>EnableSdkProcessingSteps</strong></td>
<td>Sets whether to enable any SDK message processing steps included in the Solution. Default is true.</td>
</tr>
<tr>
<td><strong>ExportAsManagedSolution</strong></td>
<td>Sets whether the Solution to be exported as a managed Solution. Default is true.</td>
</tr>
<tr>
<td><strong>Extension</strong></td>
<td>Sets the extension of the Solution file for import or export.</td>
</tr>
<tr>
<td><strong>Name</strong></td>
<td>Sets the Name of the Solution. While exporting the Solution file will be named same as the Solution's name.</td>
</tr>
<tr>
<td><strong>OrganizationUrl</strong></td>
<td>Sets the Url of the Organization, where the Solution is imported to.</td>
</tr>
<tr>
<td><strong>OverwriteCustomizations</strong></td>
<td>Sets whether to overwrite any unmanaged customizations or not. Default is true.</td>
</tr>
<tr>
<td><strong>Path</strong></td>
<td>Sets the directory path where the Solution is imported or exported to. If a path is not set, the file is read or written from the MSBuild script's directory path.</td>
</tr>
<tr>
<td><strong>Version</strong></td>
<td>Sets the Version of the Solution.</td>
</tr>
</tbody>
</table>

## Top

## See Also

**Reference**

**Solution Class**

**MSBuild.ExtensionPack.Crm Namespace**

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Send comments on this topic to MSBuild ExtensionPack Feedback
**SolutionConnectionTimeout Property**

Gets or sets the timeout in minutes for connecting to Crm Service. Default is 3 minutes.

**Namespace:** MSBuild.ExtensionPack.Crm  

**See Also**

Reference

Solution Class  
MSBuild.ExtensionPack.Crm Namespace

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**SolutionEnableSdkProcessingSteps** Property

Sets whether to enable any SDK message processing steps included in the Solution. Default is true.

**Namespace:** MSBuild.ExtensionPack.Crm


---

**See Also**

Reference

Solution Class

MSBuild.ExtensionPack.Crm Namespace

---

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**SolutionExportAsManagedSolution Property**

Sets whether the Solution to be exported as a managed Solution. Default is true.

**Namespace:** MSBuild.ExtensionPack.Crm  

**See Also**

Reference

Solution Class  
MSBuild.ExtensionPack.Crm Namespace

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**SolutionExtension**

**Property**

Sets the extension of the Solution file for import or export.

**Namespace:** MSBuild.ExtensionPack.Crm


**See Also**

Reference

Solution Class

MSBuild.ExtensionPack.Crm Namespace

---

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Send comments on this topic to [MSBuild ExtensionPack Feedback](mailto:MSBuildExtensionPackFeedback@gmail.com)
**SolutionName Property**  MSBuild Extension Pack Help 4.0.12.0

Sets the Name of the Solution. While exporting the Solution file will be named same as the Solution's name.

**Namespace:**  MSBuild.ExtensionPack.Crm  
Version: 4.0.0.0

**See Also**

Reference  
**Solution Class**  
MSBuild.ExtensionPack.Crm Namespace

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**SolutionOrganizationUrl Property**

Sets the Url of the Organization, where the Solution is imported to.

**Namespace:** MSBuild.ExtensionPack.Crm  

---

**See Also**

**Reference**

Solution Class  
MSBuild.ExtensionPack.Crm Namespace

---

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**SolutionOverwriteCustomizations**  
*Property*

Sets whether to overwrite any unmanaged customizations or not. Default is true.

**Namespace:**  
`MSBuild.ExtensionPack.Crm`

**Assembly:**  

---

**See Also**

**Reference**

**Solution Class**  
`MSBuild.ExtensionPack.Crm Namespace`

---

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**SolutionPath Property**

Sets the directory path where the Solution is imported or exported to. If a path is not set, the file is read or written from the MSBuild script's directory path.

**Namespace:** MSBuild.ExtensionPack.Crm  

**See Also**

Reference  
Solution Class  
MSBuild.ExtensionPack.Crm Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**SolutionVersion Property** MSBuild Extension Pack Help 4.0.12.0

Sets the Version of the Solution.

**Namespace:** MSBuild.ExtensionPack.Crm  

**See Also**

Reference  
Solution Class  
MSBuild.ExtensionPack.Crm Namespace

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# MSBuild.ExtensionPack.FileSystem Namespace

## Overview

This namespace hosts tasks that can be used to work with files and folders.

## Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Detokenise</strong></td>
<td>Valid TaskActions are:&lt;br&gt;<strong>Analyse</strong> <em>(Required: TargetFiles or TargetPath Optional: CommandLineValues, DisplayFiles, TextEncoding, ForceWrite, ReplacementValues, Separator, TokenPattern, TokenExtractionPattern)</em>&lt;br&gt;<em>Output: FilesProcessed</em>&lt;br&gt;&lt;br&gt;<strong>Detokenise</strong> <em>(Required: TargetFiles or TargetPath Optional: SearchAllStores, IgnoreUnknownTokens, CommandLineValues, DisplayFiles, TextEncoding, ForceWrite, ReplacementValues, Separator, TokenPattern, TokenExtractionPattern Output: FilesProcessed, FilesDetokenised)</em>&lt;br&gt;&lt;br&gt;<strong>Report</strong> <em>(Required: TargetFiles or TargetPath Optional: DisplayFiles, TokenPattern, ReportUnusedTokens Output: FilesProcessed, TokenReport, UnusedTokens)</em>&lt;br&gt;&lt;br&gt;<strong>Remote Execution Support</strong>: No</td>
</tr>
<tr>
<td><strong>File</strong></td>
<td>Valid TaskActions are:&lt;br&gt;<strong>AddAttributes</strong> <em>(Required: Files)</em>&lt;br&gt;&lt;br&gt;<strong>AddSecurity</strong> <em>(Required: Users, AccessType, Path or Files Optional: Permission)</em>&lt;br&gt;&lt;br&gt;<strong>CheckContainsContent</strong> <em>(Required: Files, RegexPattern Optional: RegexOptionList Output: Result)</em>&lt;br&gt;&lt;br&gt;<strong>Concatenate</strong> <em>(Required: Files, TargetPath)</em>&lt;br&gt;&lt;br&gt;<strong>CountLines</strong> <em>(Required: Files Optional: CommentIdentifiers, MazSize, MinSize Output: TotalLinecount, CommentLinecount, EmptyLinecount, CodeLinecount, TotalFilecount, IncludedFilecount, IncludedFiles, ExcludedFilecount, ExcludedFiles, ElapsedTime)</em>&lt;br&gt;&lt;br&gt;<strong>Create</strong> <em>(Required: Files Optional: Size). Creates file(s)</em></td>
</tr>
<tr>
<td>Function</td>
<td>Parameters</td>
</tr>
<tr>
<td>------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>GetChecksum</td>
<td><strong>Required</strong>: Path  <strong>Output</strong>: Checksum</td>
</tr>
<tr>
<td>GetTempFileName</td>
<td><strong>Output</strong>: Path</td>
</tr>
<tr>
<td>FilterByContent</td>
<td><strong>Required</strong>: Files, RegexPattern  <strong>Optional</strong>: RegexOptionList  <strong>Output</strong>: IncludedFiles, IncludedFilecount, ExcludedFilecount, ExcludedFiles</td>
</tr>
<tr>
<td>Move</td>
<td><strong>Required</strong>: Path, TargetPath</td>
</tr>
<tr>
<td>RemoveAttributes</td>
<td><strong>Required</strong>: Files</td>
</tr>
<tr>
<td>RemoveLines</td>
<td><strong>Required</strong>: Files, Lines  <strong>Optional</strong>: RegexOptionList, AvoidRegex, MatchWholeLine. This will remove lines from a file. Lines is a regular expression unless AvoidRegex is specified</td>
</tr>
<tr>
<td>RemoveSecurity</td>
<td><strong>Required</strong>: Users,AccessType,Path or Files  <strong>Optional</strong>: Permission</td>
</tr>
<tr>
<td>Replace</td>
<td><strong>Required</strong>: RegexPattern  <strong>Optional</strong>: Replacement, Path, TextEncoding, Files, RegexOptionList</td>
</tr>
<tr>
<td>SetAttributes</td>
<td><strong>Required</strong>: Files</td>
</tr>
<tr>
<td>WriteLines</td>
<td><strong>Required</strong>: Files, Lines. This will add lines to a file if the file does NOT contain them. The match is case insensitive.</td>
</tr>
<tr>
<td><strong>Remote Execution Support</strong>: No</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Folder</th>
<th><strong>Valid TaskActions are</strong>:</th>
</tr>
</thead>
<tbody>
<tr>
<td>FileVersion</td>
<td>Increment (<strong>Required</strong>: File  <strong>Optional</strong>: Increment  <strong>Output</strong>: Value)</td>
</tr>
<tr>
<td></td>
<td>Reset (<strong>Required</strong>: File  <strong>Optional</strong>: Value  <strong>Output</strong>: Value)</td>
</tr>
<tr>
<td></td>
<td><strong>Remote Execution Support</strong>: No</td>
</tr>
<tr>
<td>FindUnder</td>
<td><strong>Valid TaskActions are</strong>:</td>
</tr>
<tr>
<td></td>
<td>FindFiles (<strong>Required</strong>: Path  <strong>Optional</strong>: ModifiedAfterDate, ModifiedBeforeDate, Recursive, SearchPattern  <strong>Output</strong>: FoundItems)</td>
</tr>
<tr>
<td></td>
<td>FindDirectories (<strong>Required</strong>: Path  <strong>Optional</strong>: ModifiedAfterDate, ModifiedBeforeDate, Recursive, SearchPattern  <strong>Output</strong>: FoundItems)</td>
</tr>
<tr>
<td></td>
<td>FindFilesAndDirectories (<strong>Required</strong>: Path  <strong>Optional</strong>: ModifiedAfterDate, ModifiedBeforeDate, Recursive, SearchPattern  <strong>Output</strong>: FoundItems)</td>
</tr>
<tr>
<td></td>
<td><strong>Remote Execution Support</strong>: NA</td>
</tr>
<tr>
<td>Folder</td>
<td><strong>Valid TaskActions are</strong>:</td>
</tr>
<tr>
<td></td>
<td>AddSecurity (<strong>Required</strong>: Path, Users  <strong>Optional</strong>: AccessType, Permission)</td>
</tr>
<tr>
<td>Task</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
</tr>
<tr>
<td><strong>DeleteAll</strong> <em>(Required: Path, Match)</em></td>
<td></td>
</tr>
<tr>
<td><strong>Get</strong> <em>(Required: Path Optional: Match, Recursive)</em></td>
<td></td>
</tr>
<tr>
<td><strong>Move</strong> <em>(Required: Path, TargetPath)</em></td>
<td></td>
</tr>
<tr>
<td><strong>RemoveContent</strong> <em>(Required: Path Optional: Force, RetryCount)</em></td>
<td></td>
</tr>
<tr>
<td><strong>RemoveSecurity</strong> <em>(Required: Path, Users Optional: AccessType)</em></td>
<td></td>
</tr>
<tr>
<td><strong>Remote Execution Support:</strong> No</td>
<td></td>
</tr>
</tbody>
</table>

**RoboCopy**
This task wraps RoboCopy. Successful non-zero exit codes from Robocopy are set to zero to not break MSBuild. Use the ReturnCode property to access the exit code from Robocopy.

**Share**
Valid TaskActions are:

- **CheckExists** *(Required: ShareName Output: Exists)*

- **Create** *(Required: ShareName, SharePath Optional: Description, MaximumAllowed, CreateSharePath, AllowUsers, DenyUsers)*

- **Delete** *(Required: ShareName)*

- **ModifyPermissions** *(Required: ShareName Optional: AllowUsers, DenyUsers)*.

- **SetPermissions** *(Required: ShareName Optional: AllowUsers, DenyUsers)*.
  SetPermissions will reset all existing permissions.

**Remote Execution Support:** Yes

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Detokenise Class

Valid TaskActions are:

*Analyse (Required: TargetFiles or TargetPath Optional: CommandLineValues, DisplayFiles, TextEncoding, ForceWrite, ReplacementValues, Separator, TokenPattern, TokenExtractionPattern)*

*Output: FilesProcessed)*

*Detokenise (Required: TargetFiles or TargetPath Optional: SearchAllStores, IgnoreUnknownTokens, CommandLineValues, DisplayFiles, TextEncoding, ForceWrite, ReplacementValues, Separator, TokenPattern, TokenExtractionPattern Output: FilesProcessed, FilesDetokenised)*

*Report (Required: TargetFiles or TargetPath Optional: DisplayFiles, TokenPattern, ReportUnusedTokens Output: FilesProcessed, TokenReport, UnusedTokens)*

Remote Execution Support: No

Inheritance Hierarchy

*SystemObject*  
  *Microsoft.Build.UtilitiesTask*  
    *MSBuild.ExtensionPackBaseTask*  
      *MSBuild.ExtensionPack.FileSystemDetokenise*

Namespace: *MSBuild.ExtensionPack.FileSystem*

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The Detokenise type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Top

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CommandLineValues</strong></td>
<td>Sets the replacement values provided via the command line. The format is token1=value1#~#token2=value2 etc.</td>
</tr>
<tr>
<td>-----------------------</td>
<td>--------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>DisplayFiles</strong></td>
<td>Set to true for files being processed to be output to the console.</td>
</tr>
<tr>
<td><strong>FilesDetokenised</strong></td>
<td>Gets the files detokenised count. [Output]</td>
</tr>
<tr>
<td><strong>FilesProcessed</strong></td>
<td>Gets the files processed count. [Output]</td>
</tr>
<tr>
<td><strong>ForceWrite</strong></td>
<td>If this is set to true, then the file is re-written, even if no tokens are matched. This may be used in the case when the user wants to ensure all file are written with the same encoding.</td>
</tr>
<tr>
<td><strong>IgnoreUnknownTokens</strong></td>
<td>Specifies whether to ignore tokens which are not matched. Default is false.</td>
</tr>
<tr>
<td><strong>ProjectFile</strong></td>
<td>Sets the MSBuild file to load for token matching. Defaults to BuildEngine.ProjectFileOfTaskNode</td>
</tr>
<tr>
<td><strong>ReplacementValues</strong></td>
<td>Sets the replacement values.</td>
</tr>
<tr>
<td><strong>ReportUnusedTokens</strong></td>
<td>Set to true when running a Report to see which tokens are not used in any files scanned. Default is false.</td>
</tr>
<tr>
<td><strong>SearchAllStores</strong></td>
<td>Specifies whether to search in the ReplacementValues, CommandLineValues and the ProjectFile for token values. Default is false.</td>
</tr>
<tr>
<td><strong>Separator</strong></td>
<td>Sets the separator to use to split the CommandLineValues. The default is #~#</td>
</tr>
<tr>
<td><strong>TargetFiles</strong></td>
<td>Sets the TargetFiles.</td>
</tr>
<tr>
<td><strong>TargetPath</strong></td>
<td>Sets the TargetPath.</td>
</tr>
<tr>
<td><strong>TextEncoding</strong></td>
<td>The file encoding to write the new file in. The task will attempt to default to the current file encoding. If TargetFiles is specified, individual encodings can be specified by providing an Encoding metadata value.</td>
</tr>
<tr>
<td><strong>TokenExtractionPattern</strong></td>
<td>Specifies the regular expression to use to extract the token name from the TokenPattern provided. The default pattern is (?&lt;=$()[0-9a-zA-Z-._]+(?=)), i.e. it will extract token from ${token}$</td>
</tr>
<tr>
<td><strong>TokenPattern</strong></td>
<td>Specifies the regular expression format of the token to look for. The default pattern is $([0-9a-zA-Z-._]+) which equates to ${token}$</td>
</tr>
<tr>
<td><strong>TokenReport</strong></td>
<td>ItemGroup containing the Tokens (Identity) and Files metadata containing all the files in which the token can be found.</td>
</tr>
<tr>
<td><strong>UnusedTokens</strong></td>
<td>ItemGroup containing the tokens which have been provided but not found in the files scanned. ReportUnusedTokens must be set to true to use this.</td>
</tr>
</tbody>
</table>

*Top*
<Project ToolsVersion="4.0" DefaultTargets="Default;Report">
    <PropertyGroup>
        <TPath>$(MSBuildProjectDirectory)\..\MSBuild.ExtensionPack.tasks</TPath>
        <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks')"/>
    </PropertyGroup>
    <Import Project="$(TPath)"/>
    <PropertyGroup>
        <PathToDetokenise>C:\Demo\*<PathToDetokenise>
        <CPHome>http://www.msbuildextensionpack.com</CPHome>
        <Title>A New Title</Title>
        <clv>hello=hello#~#hello1=how#~#hello2=are#~</clv>
        <Configuration>debug</Configuration>
        <Platform>x86</Platform>
        <HiImAnUnsedToken>TheReportWillFindMe</HiImAnUnsedToken>
    </PropertyGroup>
    <Target Name="Default">
        <ItemGroup>
            <FileCollection Include="C:\Demo1\TestFile.txt">
            <FileCollection2 Include="C:\Demo1\TestFile2.txt">
            <FileCollection3 Include="C:\Demo1\TestFile3.txt">
        </ItemGroup>
        <ItemGroup>
            <TokenValues Include="Title">
                <Replacement>ANewTextString</Replacement>
            </TokenValues>
            <TokenValues Include="ProjectHome">
                <Replacement>http://www.msbuildextensionpack.com</Replacement>
            </TokenValues>
        </ItemGroup>
        <!-- Analyse a collection of files. This can
         <!-- 1 Detokenise the files defined in FileC
         <!-- 2 Detokenise the files defined in FileC
    </Target>
</Project>
See Also

Reference

MSBuild.ExtensionPack.FileSystem Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
Detokenise Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Detokenise Class
MSBuild.ExtensionPack.FileSystem Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
The **Detokenise** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CommandLineValues</td>
<td>Sets the replacement values provided via the command line. The format is token1=value1#~#token2=value2 etc.</td>
</tr>
<tr>
<td>DisplayFiles</td>
<td>Set to true for files being processed to be output to the console.</td>
</tr>
<tr>
<td>FilesDetokenised</td>
<td>Gets the files detokenised count. [Output]</td>
</tr>
<tr>
<td>FilesProcessed</td>
<td>Gets the files processed count. [Output]</td>
</tr>
<tr>
<td>ForceWrite</td>
<td>If this is set to true, then the file is re-written, even if no tokens are matched. this may be used in the case when the user wants to ensure all file are written with the same encoding.</td>
</tr>
<tr>
<td>IgnoreUnknownTokens</td>
<td>Specifies whether to ignore tokens which are not matched. Default is false.</td>
</tr>
<tr>
<td>ProjectFile</td>
<td>Sets the MSBuild file to load for token matching. Defaults to BuildEngine.ProjectFileOfTaskNode</td>
</tr>
<tr>
<td>ReplacementValues</td>
<td>Sets the replacement values.</td>
</tr>
<tr>
<td>ReportUnusedTokens</td>
<td>Set to true when running a Report to see which tokens are not used in any files scanned. Default is false.</td>
</tr>
<tr>
<td>SearchAllStores</td>
<td>Specifies whether to search in the ReplacementValues, CommandLineValues and the ProjectFile for token values. Default is false.</td>
</tr>
<tr>
<td>Separator</td>
<td>Sets the separator to use to split the CommandLineValues. The default is #~#</td>
</tr>
<tr>
<td>TargetFiles</td>
<td>Sets the TargetFiles.</td>
</tr>
<tr>
<td>TargetPath</td>
<td>Sets the TargetPath.</td>
</tr>
<tr>
<td>TextEncoding</td>
<td>The file encoding to write the new file in. The task will attempt to default to the current file encoding. If TargetFiles is specified, individual encodings can be specified by providing an Encoding metadata value.</td>
</tr>
<tr>
<td>TokenExtractionPattern</td>
<td>Specifies the regular expression to use to extract the token name from the TokenPattern provided. The default pattern is (?&lt;=${0-9a-zA-Z-_}+(?=)) , i.e it will extract token from $(token)</td>
</tr>
<tr>
<td>TokenPattern</td>
<td>Specifies the regular expression format of the token to look for. The</td>
</tr>
<tr>
<td>See Also</td>
<td></td>
</tr>
<tr>
<td>----------------</td>
<td></td>
</tr>
<tr>
<td><strong>TokenReport</strong></td>
<td>ItemGroup containing the Tokens (Identity) and Files metadata containing all the files in which the token can be found.</td>
</tr>
<tr>
<td><strong>UnusedTokens</strong></td>
<td>ItemGroup containing the tokens which have been provided but not found in the files scanned. ReportUnusedTokens must be set to true to use this.</td>
</tr>
</tbody>
</table>

**Top**

**See Also**

Reference

Detokenise Class

MSBuild.ExtensionPack.FileSystem Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**DetokeniseCommandLineValues Property**

Sets the replacement values provided via the command line. The format is `token1=value1#~#token2=value2` etc.

**Namespace:** MSBuild.ExtensionPack.FileSystem

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

- Reference
- **Detokenise Class**

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
DetokeniseDisplayFiles Property

Set to true for files being processed to be output to the console.

**Namespace:** MSBuild.ExtensionPack.FileSystem

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

Reference

Detokenise Class

MSBuild.ExtensionPack.FileSystem Namespace

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DetokeniseFilesDetokenised Property

Gets the files detokenised count. [Output]

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

---

**See Also**

Reference  
Detokenise Class  
MSBuild.ExtensionPack.FileSystem Namespace

---

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### DetokeniseFilesProcessed Property

Gets the files processed count. [Output]

**Namespace:** MSBuild.ExtensionPack.FileSystem

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

**Reference**
- Detokenise Class

---

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**DetokeniseForceWrite Property**

If this is set to true, then the file is re-written, even if no tokens are matched. This may be used in the case when the user wants to ensure all file are written with the same encoding.

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

<table>
<thead>
<tr>
<th>See Also</th>
</tr>
</thead>
</table>

**Reference**

- Detokenise Class

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**DetokeniseIgnoreUnknownTokens**  
**Property**

Specifies whether to ignore tokens which are not matched. Default is false.

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

- **Detokenise Class**  
- **MSBuild.ExtensionPack.FileSystem Namespace**

---

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DetokeniseProjectFile Property

Sets the MSBuild file to load for token matching. Defaults to BuildEngine.ProjectFileOfTaskNode

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Detokenise Class
MSBuild.ExtensionPack.FileSystem Namespace

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DetokeniseReplacementValues Property

Sets the replacement values.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

Detokenise Class
MSBuild.ExtensionPack.FileSystem Namespace

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DetokeniseReportUnusedTokens Property

Set to true when running a Report to see which tokens are not used in any files scanned. Default is false.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Detokenise Class
MSBuild.ExtensionPack.FileSystem Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
DetokeniseSearchAllStores Property

Specifies whether to search in the ReplacementValues, CommandLineValues and the ProjectFile for token values. Default is false.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

See Also

Reference

Detokenise Class
MSBuild.ExtensionPack.FileSystem Namespace

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<table>
<thead>
<tr>
<th><strong>DetokeniseSeparator</strong> Property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sets the separator to use to split the CommandLineValues. The default is #~#</td>
</tr>
</tbody>
</table>

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**
- Detokenise Class

---

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DetokeniseTargetFiles Property

Sets the TargetFiles.

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference
- Detokenise Class

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**DetokeniseTargetPath Property**

Sets the TargetPath.

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference  
Detokenise Class  
MSBuild.ExtensionPack.FileSystem Namespace

---

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## DetokeniseTextEncoding Property

The file encoding to write the new file in. The task will attempt to default to the current file encoding. If TargetFiles is specified, individual encodings can be specified by providing an Encoding metadata value.

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

### See Also

**Reference**
- Detokenise Class

---

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**DetokeniseTokenExtractionPattern**

Specifies the regular expression to use to extract the token name from the TokenPattern provided. The default pattern is `(?<=\$\(0-9a-zA-Z-\_\)+(?=\))`, i.e. it will extract token from `$(token)`

**Namespace:** MSBuild.ExtensionPack.FileSystem
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

**See Also**

**Reference**
- Detokenise Class
DetokeniseTokenPattern Property

Specifies the regular expression format of the token to look for. The default pattern is $\langle [0-9a-zA-Z-._\+]\rangle$ which equates to $(token)

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
- Detokenise Class

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**DetokeniseTokenReport Property**

ItemGroup containing the Tokens (Identity) and Files metadata containing all the files in which the token can be found.

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

### See Also

**Reference**

- Detokenise Class

---

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DetokeniseUnusedTokens Property

Itemgroup containing the tokens which have been provided but not found in the files scanned. ReportUnusedTokens must be set to true to use this.

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
Detokenise Class  
MSBuild.ExtensionPack.FileSystem Namespace

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Valid TaskActions are:

* AddAttributes (Required: Files)

* AddSecurity (Required: Users, AccessType, Path or Files Optional: Permission)

* CheckContainsContent (Required: Files, RegexPattern Optional: RegexOptionList Output: Result)

* Concatenate (Required: Files, TargetPath)

* CountLines (Required: Files Optional: CommentIdentifiers, MazSize, MinSize Output: TotalLinecount, CommentLinecount, EmptyLinecount, CodeLinecount, TotalFilecount, IncludedFilecount, IncludedFiles, ExcludedFilecount, ExcludedFiles, ElapsedTime)

* Create (Required: Files Optional: Size). Creates file(s)

* GetChecksum (Required: Path Output: Checksum)

* GetTempFileName (Output: Path)

* FilterByContent (Required: Files, RegexPattern Optional: RegexOptionList Output: IncludedFiles, IncludedFilecount, ExcludedFilecount, ExcludedFiles)

* Move (Required: Path, TargetPath)

* RemoveAttributes (Required: Files)

* RemoveLines (Required: Files, Lines Optional: RegexOptionList, AvoidRegex, MatchWholeLine). This will remove lines from a file. Lines is a regular expression unless AvoidRegex is specified

* RemoveSecurity (Required: Users, AccessType, Path or Files Optional: Permission)

* Replace (Required: RegexPattern Optional: Replacement, Path, TextEncoding, Files, RegexOptionList)

* SetAttributes (Required: Files)

* WriteLines (Required: Files, Lines). This will add lines to a file if the file
does NOT contain them. The match is case insensitive.

**Remote Execution Support:** No

**Inheritance Hierarchy**

```
               MSBuild.ExtensionPack.BaseTask
```

**Namespace:** MSBuild.ExtensionPack.FileSystem

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The `File` type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>File</td>
<td>File</td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>AccessType</code></td>
<td>Sets the AccessType. Can be <code>Allow</code> or <code>Deny</code>. Default is <code>Allow</code>.</td>
</tr>
<tr>
<td><code>AvoidRegex</code></td>
<td>Set to true to avoid using Regular Expressions. This may increase performance</td>
</tr>
<tr>
<td><code>Checksum</code></td>
<td>Gets the file checksum</td>
</tr>
<tr>
<td><code>CodeLinecount</code></td>
<td>Gets the number of code lines countered. This is calculated as Total - CommentLinecount</td>
</tr>
<tr>
<td><code>CommentIdentifiers</code></td>
<td>Sets characters to be interpreted as comment identifiers. Semi-colon delimited.</td>
</tr>
<tr>
<td><code>CommentLinecount</code></td>
<td>Gets the number of comment lines counted</td>
</tr>
<tr>
<td><code>ElapsedTime</code></td>
<td>Gets the time taken to count the files. Value in seconds.</td>
</tr>
<tr>
<td><code>EmptyLinecount</code></td>
<td>Gets the number of empty lines countered. Whitespaces are ignored.</td>
</tr>
<tr>
<td><code>ExcludedFilecount</code></td>
<td>Gets the number of excluded files</td>
</tr>
<tr>
<td><code>ExcludedFiles</code></td>
<td>Item collection of files Excluded from the count.</td>
</tr>
<tr>
<td><code>Files</code></td>
<td>An ItemList of files to process. If calling SetAttributes, RemoveAttributes or AddAttributes, include the attributes in an Attributes metadata tag,</td>
</tr>
</tbody>
</table>
IncludedFilecount  Gets the number of included files
IncludedFiles   Item collection of files included after filtering operations
Lines           Sets the Lines to use. For WriteLines this is interpreted as plain text. For RemoveLines this is interpreted as a regular expression.
MatchWholeLine  Used with AvoidRegex. Set to true to match the whole line. The default is false.
MaxSize         Sets the maximum size of files to count
MinSize         Sets the minimum size of files to count
Path            A path to process or get. Use * for recursive folder processing. For the GetChecksum TaskAction, this indicates the path to the file to create a checksum for.
Permission      A comma-separated list of FileSystemRights.
RegexOptionList Sets the Regular Expression options, e.g. None|IgnoreCase|Multiline|ExplicitCapture|Compiled|Singleline|IgnorePatternWhitespace|RightToLeft|RightToLeft|ECMAScript|CultureInvariant
Default is RegexOptions.Compiled
RegexPattern    Sets the regex pattern.
Replacement     The replacement text to use. Default is string.Empty
Result          Gets the result
Size            Sets the size of the file in bytes for TaskAction="Create". This can be overridden
TargetPath      Sets the TargetPath for a renamed file or to save concatenated files
TextEncoding    The file encoding to write the new file in. The task will attempt to default to the current file encoding.
TotalFilecount  Gets the number of files counted
TotalLinecount  Gets the total number of lines counted
Users           Sets the users collection. Use the Permission metadata tag to specify permissions.

Remarks
The Permission metadata is only used if the Permission property is not set.

```xml
<UsersCol Include="AUser">
  <Permission>Read,etc</Permission>
</UsersCol>
```

Top

Examples
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\.\$.<TPath>
    <TPath Condition="Exists($(MSBuildProjectDirectory)\.\..\..\Comm<PropertyGroup>
  <Import Project="$(TPath)"/>
  <ItemGroup>
    <FilesToParse Include="c:\demo\file.txt"/>
    <FilesToCount Include="C:\Demo\**\*.cs"/>
    <AllFilesToCount Include="C:\Demo\**\*"/>
    <AtFiles Include="c:\demo\file1.txt"> <Attributes>ReadOnly;Hidden</Attributes> </AtFiles>
    <AtFiles2 Include="c:\demo\file1.txt"> <Attributes>Normal</Attributes> </AtFiles2>
    <MyFiles Include="C:\demo\**\*.csproj")/>
    <FilesToSecure Include="C:\demo\file1.txt"/>
    <FilesToSecure Include="C:\demo\file2.txt"/>
    <Users Include="MyUser"/>
    <UsersWithPermissions Include="MyUser"> <Permission>Read,Write</Permission> </UsersWithPermissions>
    <FilesToWriteTo Include="C:\a\hosts"/>
    <LinesToRemove Include="192.156.236.25\twww.myurl.com"/>
    <LinesToRemove Include="192.156.234.25\twww.myurl.com"/>
    <Lines Include="192.156.236.25 www.myurl.com"/>
    <Lines Include="192.156.234.25 www.myurl.com"/>
    <FilesToCreate Include="d:\a\File1-100."/>
    <FilesToCreate Include="d:\a\File2-100."/>
    <FilesToCreate Include="d:\a\File3-5000000." size="5000000"></FilesToCreate>
    <FilesToCreate Include="d:\a\File4-100."/>
    <FilesToCheck Include="d:\a\*.*"/>
    <FilesToConcatenate Include="c:\a\*.prc"/></FilesToCheck>
  </ItemGroup>
  <Target Name="Default">
<!- Concatenate Files -->
<!- Check whether files contain matchi
  <Output TaskParameter="Result" PropertyName="TheResult"/>
<Message Text="$(TheResult)"/>
<!- Create some files. Defaults the si
<!- Write lines to a file. Lines only
<!- Remove lines from a file based on
<!- adding security -->
<!- remove security -->
<!- Get a temp file -->
  <Output TaskParameter="Path" PropertyName="TempPath"/>
<Message Text="TempPath: $(TempPath)"/>
<!- Filter a collection of files based
<Message Text="MyProjects %(MyFiles.Identity)"
  <Output TaskParameter="IncludedFiles" ItemName="IncludedFile"/>
  <Output TaskParameter="ExcludedFiles" ItemName="ExcludedFile"/>
<Message Text="WebProjects: %(WebProjects.Identity)"
<Message Text="NonWebProjects: %(NonWebProjects.Identity)"
<Message Text="WebProjectsCount: $(WebProjectsCount)"
<Message Text="NonWebProjectsCount: $(NonWebProjectsCount)"
<!- Get the checksum of a file -->
  <Output TaskParameter="Checksum" PropertyName="Checksum"/>

<Message Text="$(chksm)"/>

<!-- Replace file content using a regular expression -->
<!-- Count the number of lines in a file -->
  <Output TaskParameter="CodeLinecount">
    <Output TaskParameter="IncludedFiles">
      <Output TaskParameter="ExcludedFiles">
        <Message Text="C# CodeLinecount: $(csharplines)"
        <Message Text="MyIncludedFiles: %(MyIncludedFiles.Identity)"
        <Message Text="MyExcludedFiles: %(MyExcludedFiles.Identity)"
      </Target>
    </Target>
  </Target>
<Message Text="All Files TotalLinecount">
<!-- Set some attributes -->
<!-- Move a file -->
</Target>
</Project>

See Also

Reference

MSBuild.ExtensionPack.FileSystem Namespace

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**File Constructor**

Version: 4.0.0.0

**See Also**

Reference
- File Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
# File Properties

The **File** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AccessType</strong></td>
<td>Set the AccessType. Can be Allow or Deny. Default is Allow.</td>
</tr>
<tr>
<td><strong>AvoidRegex</strong></td>
<td>Set to true to avoid using Regular Expressions. This may increase performance</td>
</tr>
<tr>
<td><strong>Checksum</strong></td>
<td>Gets the file checksum</td>
</tr>
<tr>
<td><strong>CodeLinecount</strong></td>
<td>Gets the number of code lines countered. This is calculated as Total - Comment</td>
</tr>
<tr>
<td><strong>CommentIdentifiers</strong></td>
<td>Sets characters to be interpreted as comment identifiers. Semi-colon delimited.</td>
</tr>
<tr>
<td><strong>CommentLinecount</strong></td>
<td>Gets the number of comment lines counted</td>
</tr>
<tr>
<td><strong>ElapsedTime</strong></td>
<td>Gets the time taken to count the files. Value in seconds.</td>
</tr>
<tr>
<td><strong>EmptyLinecount</strong></td>
<td>Gets the number of empty lines countered. Whitespace is ignored.</td>
</tr>
<tr>
<td><strong>ExcludedFilecount</strong></td>
<td>Gets the number of excluded files</td>
</tr>
<tr>
<td><strong>ExcludedFiles</strong></td>
<td>Item collection of files Excluded from the count.</td>
</tr>
<tr>
<td><strong>Files</strong></td>
<td>An ItemList of files to process. If calling SetAttributes, RemoveAttributes or AddAttributes, include the attributes in an Attributes metadata tag, separated by a semicolon.</td>
</tr>
<tr>
<td><strong>IncludedFilecount</strong></td>
<td>Gets the number of included files</td>
</tr>
<tr>
<td><strong>IncludedFiles</strong></td>
<td>Item collection of files included after filtering operations</td>
</tr>
<tr>
<td><strong>Lines</strong></td>
<td>Sets the Lines to use. For WriteLines this is interpreted as plain text. For RemoveLines this is interpreted as a regular expression.</td>
</tr>
<tr>
<td><strong>MatchWholeLine</strong></td>
<td>Used with AvoidRegex. Set to true to match the whole line. The default is false.</td>
</tr>
<tr>
<td><strong>MaxSize</strong></td>
<td>Sets the maximum size of files to count</td>
</tr>
<tr>
<td><strong>MinSize</strong></td>
<td>Sets the minimum size of files to count</td>
</tr>
<tr>
<td><strong>Path</strong></td>
<td>A path to process or get. Use * for recursive folder processing. For the GetChecksum TaskAction, this indicates the path to the file to create a checksum for.</td>
</tr>
<tr>
<td><strong>Permission</strong></td>
<td>A comma-separated list of FileSystemRights.</td>
</tr>
<tr>
<td><strong>RegexOptionList</strong></td>
<td>Sets the Regular Expression options, e.g. None</td>
</tr>
<tr>
<td></td>
<td>Default is RegexOptions.Compiled</td>
</tr>
<tr>
<td>Remarks</td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
<td></td>
</tr>
<tr>
<td>The Permission metadata is only used if the Permission property is not set.</td>
<td></td>
</tr>
</tbody>
</table>

```xml
<UserCol Include="AUser">
  <Permission>Read, etc</Permission>
</UserCol>
```

### Top

### See Also

#### Reference

**File Class**

**MSBuild.ExtensionPack.FileSystem Namespace**

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**FileAccess** Property  MSBuild Extension Pack Help 4.0.12.0

Set the AccessType. Can be Allow or Deny. Default is Allow.

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

---

**Reference**

File Class  
MSBuild.ExtensionPack.FileSystem Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**FileAvoidRegex Property** MSBuild Extension Pack Help 4.0.12.0

Set to true to avoid using Regular Expressions. This may increase performance for certain operations against large files.

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

File Class  
MSBuild.ExtensionPack.FileSystem Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**FileChecksum Property**  
MSBuild Extension Pack Help 4.0.12.0

Gets the file checksum

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
File Class  
MSBuild.ExtensionPack.FileSystem Namespace

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**FileCodeLinecount**

**Property**

Gets the number of code lines countered. This is calculated as Total - Comment - Empty

**Namespace:** MSBuild.ExtensionPack.FileSystem

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

---

**See Also**

Reference

File Class
MSBuild.ExtensionPack.FileSystem Namespace

---

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FileCommentIdentifiers Property

Sets characters to be interpreted as comment identifiers. Semi-colon delimited. Only single line comments are currently supported.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
File Class
MSBuild.ExtensionPack.FileSystem Namespace

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**FileCommentLinecount Property**

Gets the number of comment lines counted

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

- Reference
  - File Class

---

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**FileElapsedTime Property**

Gets the time taken to count the files. Value in seconds.

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

File Class  
MSBuild.ExtensionPack.FileSystem Namespace

---

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**FileEmptyLinecount Property**

Gets the number of empty lines countered. Whitespace is ignored.

**Namespace:** `MSBuild.ExtensionPack.FileSystem`  
**Assembly:** `MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)`  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

File Class  
`MSBuild.ExtensionPack.FileSystem Namespace`

---

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**FileExcludedFilecount Property**

Gets the number of excluded files

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
**File Class**  
MSBuild.ExtensionPack.FileSystem Namespace

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FileExcludedFiles

Property

Item collection of files Excluded from the count.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
File Class
MSBuild.ExtensionPack.FileSystem Namespace

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**FileFiles Property**

An ItemList of files to process. If calling SetAttributes, RemoveAttributes or AddAttributes, include the attributes in an Attributes metadata tag, separated by a semicolon.

**Namespace:** MSBuild.ExtensionPack.FileSystem

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

Reference

File Class

MSBuild.ExtensionPack.FileSystem Namespace

---

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**FileIncludedFilecount Property**

Gets the number of included files


*Assembly:* MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) *Version:* 4.0.0.0

---

**See Also**

*Reference*

File Class

MSBuild.ExtensionPack.FileSystem Namespace

---

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**FileIncludedFiles**

**Property**

Item collection of files included after filtering operations

**Namespace:** MSBuild.ExtensionPack.FileSystem

**Assembly:**  MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  Version: 4.0.0.0

---

**See Also**

**Reference**

File Class
MSBuild.ExtensionPack.FileSystem Namespace

---

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FileLines Property

Sets the Lines to use. For WriteLines this is interpreted as plain text. For RemoveLines this is interpreted as a regular expression.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
File Class
MSBuild.ExtensionPack.FileSystem Namespace

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**FileMatchWholeLine Property**

Used with AvoidRegex. Set to true to match the whole line. The default is false i.e. a line.Contains operation is used.

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

*Reference*

*File Class*

MSBuild.ExtensionPack.FileSystem Namespace

---

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**FileMaxSize Property**

Sets the maximum size of files to count

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference  
File Class  
MSBuild.ExtensionPack.FileSystem Namespace

---

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FileNameSize Property

Sets the minimum size of files to count

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
File Class
MSBuild.ExtensionPack.FileSystem Namespace

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**FilePath Property**

A path to process or get. Use * for recursive folder processing. For the GetChecksum TaskAction, this indicates the path to the file to create a checksum for.

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

### See Also

**Reference**

- **File Class**  
  MSBuild.ExtensionPack.FileSystem Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**FilePermission Property**  MSBuild Extension Pack Help 4.0.12.0

A comma-separated list of `FileSystemRights`.

**Namespace:** [MSBuild.ExtensionPack.FileSystem](https://www.MSBuildExtensionPack.com)

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  **Version:** 4.0.0.0

**Remarks**

If Permission is not set, the task will look for Permission meta-data on each user item.

**See Also**

- Reference
  - File Class

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**FileRegexOptionList**

**Property**

Sets the Regular Expression options, e.g.
None|IgnoreCase|Multiline|ExplicitCapture|Compiled|Singleline|IgnorePattern
Default is RegexOptions.Compiled

**Namespace:** MSBuild.ExtensionPack.FileSystem

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

**Reference**

File Class

MSBuild.ExtensionPack.FileSystem Namespace

---

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**FileRegexPattern Property**

Sets the regex pattern.

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

File Class  
MSBuild.ExtensionPack.FileSystem Namespace

---

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FileReplacement Property

The replacement text to use. Default is string.Empty

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also

**Reference**

File Class  
MSBuild.ExtensionPack.FileSystem Namespace
FileResult Property

Gets the result

**Namespace:** MSBuild.ExtensionPack.FileSystem

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

### See Also

**Reference**
- File Class

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See Also

Reference

File Class
MSBuild.ExtensionPack.FileSystem Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
FileTargetPath Property

Sets the TargetPath for a renamed file or to save concatenated files

**Namespace:** MSBuild.ExtensionPack.FileSystem

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

### See Also

Reference

File Class
MSBuild.ExtensionPack.FileSystem Namespace

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FileTextEncoding Property

The file encoding to write the new file in. The task will attempt to default to the current file encoding.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

File Class
MSBuild.ExtensionPack.FileSystem Namespace
FileTotalFilecount Property

Gets the number of files counted

**Namespace:** MSBuild.ExtensionPack.FileSystem

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  Version: 4.0.0.0

See Also

Reference

File Class
MSBuild.ExtensionPack.FileSystem Namespace

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**FileTotalLinecount**

**Property**

Gets the total number of lines counted

**Namespace:** `MSBuild.ExtensionPack.FileSystem`  
**Assembly:** `MSBuild.ExtensionPack` (in `MSBuild.ExtensionPack.dll`)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

- File Class

---

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**FileUsers Property**

Sets the users collection. Use the Permission metadata tag to specify permissions. Separate permissions with a comma.

**Remarks**

The Permission metadata is only used if the Permission property is not set.

```
<UsersCol Include="AUser">
  <Permission>Read, etc</Permission>
</UsersCol>
```

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

- File Class

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FileVersion Class

Valid TaskActions are:

Increment (Required: File Optional: Increment Output: Value)
Reset (Required: File Optional: Value Output: Value)
Remote Execution Support: No

Inheritance Hierarchy

SystemObject  Microsoft.Build.UtilitiesTask
  MSBuild.ExtensionsPackBaseTask

Assembly: MSBuild.ExtensionsPack (in MSBuild.ExtensionsPack.dll) Version: 4.0.0.0

The FileVersion type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FileVersion</td>
<td></td>
</tr>
</tbody>
</table>

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>File</td>
<td>The file to store the incrementing version in.</td>
</tr>
<tr>
<td>Increment</td>
<td>Value to increment by. Default is 1.</td>
</tr>
<tr>
<td>Value</td>
<td>Gets value returned from the file, or used to reset the value in the file. Default is 0.</td>
</tr>
</tbody>
</table>

Examples
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\..\Common\MSBuild.ExtensionPack.tasks')"></TPath>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- Perform a default increment of 1 -->
      <Message Text="$(NewValue)"/>
    <!-- Perform an increment of 5 -->
      <Message Text="$(NewValue)"/>
    <!-- Reset a file value -->
      <Message Text="$(NewValue)"/>
  </Target>
</Project>

See Also

Reference
MSBuild.ExtensionPack.FileSystem Namespace

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FileVersion Constructor  MSBuild Extension Pack Help 4.0.12.0

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
FileVersion Class
MSBuild.ExtensionPack.FileSystem Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
FileVersion Properties

The `FileVersion` type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>File</td>
<td>The file to store the incrementing version in.</td>
</tr>
<tr>
<td>Increment</td>
<td>Value to increment by. Default is 1.</td>
</tr>
<tr>
<td>Value</td>
<td>Gets value returned from the file, or used to reset the value in the file. Default is 0.</td>
</tr>
</tbody>
</table>

See Also

Reference

FileVersion Class

MSBuild.ExtensionPack.FileSystem Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
FileVersion File Property  MSBuild Extension Pack Help 4.0.12.0

The file to store the incrementing version in.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
FileVersion Class
MSBuild.ExtensionPack.FileSystem Namespace

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FileVersionIncrement Property

Value to increment by. Default is 1.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
FileVersion Class
MSBuild.ExtensionPack.FileSystem Namespace

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FileVersionValue Property

Gets value returned from the file, or used to reset the value in the file. Default is 0.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
FileVersion Class
MSBuild.ExtensionPack.FileSystem Namespace

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FindUnder Class

Valid TaskActions are:

FindFiles (Required: Path Optional: ModifiedAfterDate,
ModifiedBeforeDate, Recursive, SearchPattern Output: FoundItems)

FindDirectories (Required: Path Optional: ModifiedAfterDate,
ModifiedBeforeDate, Recursive, SearchPattern Output: FoundItems)

FindFilesAndDirectories (Required: Path Optional: ModifiedAfterDate,
ModifiedBeforeDate, Recursive, SearchPattern Output: FoundItems)

Remote Execution Support: NA

Inheritance Hierarchy

SystemObject Microsoft.Build.UtilitiesTask
  MSBuild.ExtensionPackBaseTask

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The FindUnder type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FindUnder</td>
<td></td>
</tr>
</tbody>
</table>

Top

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FoundItems</td>
<td>The list of items (files and or directories) which were found.</td>
</tr>
<tr>
<td>ModifiedAfterDate</td>
<td>Set this value to only return files or folders modified after the given value</td>
</tr>
<tr>
<td>ModifiedBeforeDate</td>
<td>Set this value to only return files or folders modified before the given value</td>
</tr>
</tbody>
</table>
### Examples

```xml
<Project ToolsVersion="4.0" xmlns="http://schemas.microsoft.com/developer/msbuild/2003"

  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\.MSBuild.ExtensionPack.tasks')"/>
  </PropertyGroup>

  <Import Project="$(TPath)"/>

  <Target Name="Demo">
    <!-- Only finds files -->
      <Output ItemName="AllFoundFiles" TaskParameter/>
    <Message Text="=====	Found Files	=====">
      AllFoundFiles:%0d%0a@(AllFoundFiles,'%0d%0a')
    </Message>

    <!-- Only finds directories -->
      <Output ItemName="AllFoundDirectories" TaskParameter/>
    <Message Text="=====	Found Directories	=====">
      AllFoundDirectories:%0d%0a@(AllFoundDirectories,'%0d%0a')
    </Message>

    <!-- Find both files and directories -->
      <Output ItemName="AllFoundItems" TaskParameter/>
    <Message Text="=====	Found Files and Directories	=====">
      AllFoundItems:%0d%0a@(AllFoundItems,'%0d%0a')
    </Message>
  </Target>

```
<!-- Find both files with SearchPattern = "F -->
    <Output ItemName="AllFilesStartingWithF"
<Message Text="===== Found Files Starting with 'F' ====="
<Message Text="AllFilesStartingWithF:%0d%0a"
</Target>
</Project>

See Also

Reference

MSBuild.ExtensionPack.FileSystem Namespace

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**FindUnder Constructor**

**Namespace:** MSBuild.ExtensionPack.FileSystem

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

Reference

FindUnder Class

MSBuild.ExtensionPack.FileSystem Namespace

---

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The **FindUnder** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FoundItems</td>
<td>The list of items (files and or directories) which were found.</td>
</tr>
<tr>
<td>ModifiedAfterDate</td>
<td>Set this value to only return files or folders modified after the given value</td>
</tr>
<tr>
<td>ModifiedBeforeDate</td>
<td>Set this value to only return files or folders modified before the given value.</td>
</tr>
<tr>
<td>Path</td>
<td>The path that the <strong>FindUnder</strong> will be executed against. This is a <strong>Required</strong> value.</td>
</tr>
<tr>
<td>Recursive</td>
<td>Sets whether the File search is recursive. Default is true.</td>
</tr>
<tr>
<td>SearchPattern</td>
<td>This in an optional input property. This will set the <strong>SearchPattern</strong> to be used in the search. The default value for this is &quot;*&quot;. This value is passed to either the System.IO.DirectoryInfo.GetDirectories method and/or the System.IO.FileInfo.GetFiles method. See that documentation for usage guidelines.</td>
</tr>
</tbody>
</table>

## See Also

Reference

**FindUnder Class**

**MSBuild.ExtensionPack.FileSystem Namespace**

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Send comments on this topic to MSBuild ExtensionPack Feedback
FindUnderFoundItems Property

The list of items (files and or directories) which were found.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

- FindUnder Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**FindUnderModifiedAfterDate** MSBuild Extension Pack Help 4.0.12.0

**Property**

Set this value to only return files or folders modified after the given value

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**

FindUnder Class  
MSBuild.ExtensionPack.FileSystem Namespace

---

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FindUnderModifiedBeforeDate Property

Set this value to only return files or folders modified before the given value

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
FindUnder Class
MSBuild.ExtensionPack.FileSystem Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
FindUnderPath Property  MSBuild Extension Pack Help 4.0.12.0

The path that the FindUnder will be executed against. This is a Required value.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
FindUnder Class
MSBuild.ExtensionPack.FileSystem Namespace

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**FindUnderRecursive Property**

Sets whether the File search is recursive. Default is true

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**
- FindUnder Class

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FindUnderSearchPattern Property

This is an optional input property. This will set the SearchPattern to be used in the search. The default value for this is "*";
This value is passed to either the System.IO.DirectoryInfo.GetDirectories method and/or the System.IO.FileInfo.GetFiles method. See that documentation for usage guidelines.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
FindUnder Class
MSBuild.ExtensionPack.FileSystem Namespace

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**Folder Class**

**Valid TaskActions are:**

*AddSecurity* *(Required: Path, Users Optional: AccessType, Permission)*

*DeleteAll* *(Required: Path, Match)*

*Get* *(Required: Path Optional: Match, Recursive)*

*Move* *(Required: Path, TargetPath)*

*RemoveContent* *(Required: Path Optional: Force, RetryCount)*

*RemoveSecurity* *(Required: Path, Users Optional: AccessType)*

**Remote Execution Support:** No

### Inheritance Hierarchy

```
               MSBuild.ExtensionPackBaseTask
               MSBuild.ExtensionPack.FileSystemFolder
```

**Namespace:** MSBuild.ExtensionPack.FileSystem

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The **Folder** type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🏷️ Folder</td>
<td></td>
</tr>
</tbody>
</table>

**Top**

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🏷️ AccessType</td>
<td>Set the AccessType. Can be Allow or Deny. Default is Allow.</td>
</tr>
<tr>
<td>🏷️ Folders</td>
<td>Gets the folder list</td>
</tr>
<tr>
<td>🏷️ Force</td>
<td>Sets a value indicating whether to delete readonly files when performing</td>
</tr>
<tr>
<td><strong>RemoveContent</strong></td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
<td></td>
</tr>
<tr>
<td><strong>Match</strong></td>
<td>Sets the regular expression to match in the name of a folder for Delete. Case is ignored.</td>
</tr>
<tr>
<td><strong>Path</strong></td>
<td>Sets the path to remove content from, or the base path for Delete</td>
</tr>
<tr>
<td><strong>Permission</strong></td>
<td>A comma-separated list of FileSystemRights.</td>
</tr>
<tr>
<td><strong>Recursive</strong></td>
<td>Set to true to perform a recursive scan. Default is false.</td>
</tr>
<tr>
<td><strong>RetryCount</strong></td>
<td>Sets a value indicating how many times to retry removing the content, e.g. if files are temporarily locked. Default is 5. The retry occurs every 5 seconds.</td>
</tr>
<tr>
<td><strong>TargetPath</strong></td>
<td>Sets the TargetPath for a renamed folder</td>
</tr>
<tr>
<td><strong>Users</strong></td>
<td>Sets the users collection. Use the Permission metadata tag to specify permissions. Separate permissions with a comma. Read, etc</td>
</tr>
</tbody>
</table>

### Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists($(MSBuildProjectDirectory)\.Common\MSBuild.ExtensionPack.tasks)" />
  </PropertyGroup>
  <Import Project="$(TPath)" />
  <Target Name="Default">
    <ItemGroup>
      <Users Include="AReadUser">
        <Permission>ExecuteFile, Read</Permission>
      </Users>
      <Users Include="AChangeUser">
        <Permission>FullControl</Permission>
      </Users>
      <FoldersToPermission Include="c:\az">
        <Account>Performance Log Users</Account>
        <Permission>Read, Write, Modify, Delete</Permission>
        <AccessType>Allow</AccessType>
      </FoldersToPermission>
    </ItemGroup>
  </Target>
</Project>
```
<FolderToPermission Include="c:\az">
  <Account>AChangeUser</Account>
  <Permission>Read,Write,Modify,Delete</Permission>
  <AccessType>Allow</AccessType>
</FolderToPermission>

<FolderToRemovePermissions Include="c:\">
  <Account>Performance Log Users</Account>
  <Permission>Read,Write,Modify,Delete</Permission>
</FolderToRemovePermissions>

<Microsoft.Build.Tasks.MakeDir Directories="c:\Demo2;c:\Demo1;c:\ddd" />

<!-- Add security for users -->

<!-- Remove security for users -->

<!-- Add Deny security for users -->

<!-- Remove Deny security for users -->

<!-- Delete all folders matching a given name -->

<!-- Remove all content from a folder whilst maintaining the target folder -->

<!-- Move a folder -->

<!-- Lets copy a selection of folders to multiple locations -->

<!-- Add security for users -->
<Output TaskParameter="Folders" ItemName />

<!-- Remove security for users -->
<Message Text="%(FoundFolders.Identity)"/>

<MyWebService Include="C:\a\Dist\**\**.*" />
  <ToDir>%(FoundFolders.Identity)</ToDir>
</MyWebService>

</ItemGroup>
<!-- Copy using the metadata -->
<Copy SourceFiles="@(MyWebService)" DestinationFolder />
</Target>
</Project>

See Also

Reference
MSBuild.ExtensionPack.FileSystem Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**Folder Constructor**

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference  
Folder Class  
MSBuild.ExtensionPack.FileSystem Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
The **Folder** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AccessType</strong></td>
<td>Set the AccessType. Can be Allow or Deny. Default is Allow.</td>
</tr>
<tr>
<td><strong>Folders</strong></td>
<td>Gets the folder list</td>
</tr>
<tr>
<td><strong>Force</strong></td>
<td>Sets a value indicating whether to delete readonly files when performing RemoveContent</td>
</tr>
<tr>
<td><strong>Match</strong></td>
<td>Sets the regular expression to match in the name of a folder for Delete. Case is ignored.</td>
</tr>
<tr>
<td><strong>Path</strong></td>
<td>Sets the path to remove content from, or the base path for Delete</td>
</tr>
<tr>
<td><strong>Permission</strong></td>
<td>A comma-separated list of <a href="https://msdn.microsoft.com/en-us/library/system.filesecurityrights.aspx">FileSystemRights</a></td>
</tr>
<tr>
<td><strong>Recursive</strong></td>
<td>Set to true to perform a recursive scan. Default is false.</td>
</tr>
<tr>
<td><strong>RetryCount</strong></td>
<td>Sets a value indicating how many times to retry removing the content, e.g. if files are temporarily locked. Default is 5. The retry occurs every 5 seconds.</td>
</tr>
<tr>
<td><strong>TargetPath</strong></td>
<td>Sets the TargetPath for a renamed folder</td>
</tr>
<tr>
<td><strong>Users</strong></td>
<td>Sets the users collection. Use the Permission metadata tag to specify permissions. Separate permissions with a comma. Read,etc</td>
</tr>
</tbody>
</table>

## See Also

- **Reference**
  - **Folder Class**
  - **MSBuild.ExtensionPack.FileSystem Namespace**

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Send comments on this topic to [MSBuild ExtensionPack Feedback](mailto:feedback@MSBuildExtensionPack.com)
FolderAccessType Property

Set the AccessType. Can be Allow or Deny. Default is Allow.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Folder Class
MSBuild.ExtensionPack.FileSystem Namespace

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FolderFolders Property

Gets the folder list

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Folder Class
MSBuild.ExtensionPack.FileSystem Namespace

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FolderForce Property

Sets a value indicating whether to delete readonly files when performing RemoveContent

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Folder Class
MSBuild.ExtensionPack.FileSystem Namespace

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**FolderMatch Property**

Sets the regular expression to match in the name of a folder for Delete. Case is ignored.

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**  
Folder Class  
MSBuild.ExtensionPack.FileSystem Namespace

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**FolderPath Property**

Sets the path to remove content from, or the base path for Delete

**Namespace:** MSBuild.ExtensionPack.FileSystem

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

Reference

Folder Class

MSBuild.ExtensionPack.FileSystem Namespace

---

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FolderPermission Property

A comma-separated list of FileSystemRights.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Folder Class
MSBuild.ExtensionPack.FileSystem Namespace

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FolderRecursive Property

Set to true to perform a recursive scan. Default is false.

**Namespace:** MSBuild.ExtensionPack FileSystem

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

Folder Class

MSBuild.ExtensionPack.FileSystem Namespace

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FolderRetryCount Property

Sets a value indicating how many times to retry removing the content, e.g. if files are temporarily locked. Default is 5. The retry occurs every 5 seconds.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Folder Class
MSBuild.ExtensionPack.FileSystem Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
FolderTargetPath Property

Sets the TargetPath for a renamed folder


Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Folder Class
MSBuild.ExtensionPack.FileSystem Namespace

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**Folder Users Property**

Sets the users collection. Use the Permission metadata tag to specify permissions. Separate permissions with a comma.

Read, etc

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

- *Reference*
- Folder Class

---

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**RoboCopy Class**

This task wraps RoboCopy. Successful non-zero exit codes from Robocopy are set to zero to not break MSBuild. Use the ReturnCode property to access the exit code from Robocopy.

**Inheritance Hierarchy**

- `System.Object`
  - `Microsoft.Build.UtilitiesTask`
  - `Microsoft.Build.Utilities.ToolTask`

**Namespace:** `MSBuild.ExtensionPack.FileSystem`

**Assembly:** `MSBuild.ExtensionPack` (in `MSBuild.ExtensionPack.dll`) Version: 4.0.0.0

The **RoboCopy** type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RoboCopy</td>
<td></td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Destination</td>
<td>Destination Dir (drive:\path or \server\share\path).</td>
</tr>
<tr>
<td>Files</td>
<td>File(s) to copy (names/wildcards: default is &quot;<em>.</em>&quot;).</td>
</tr>
<tr>
<td>LogToConsole</td>
<td>Set to true to log output to the console. Default is false</td>
</tr>
<tr>
<td>Options</td>
<td>Type 'robocopy.exe /?' at the command prompt for all available options</td>
</tr>
<tr>
<td>ReturnCode</td>
<td>Gets the Return Code from RoboCopy</td>
</tr>
<tr>
<td>Source</td>
<td>Source Directory (drive:\path or \server\share\path).</td>
</tr>
</tbody>
</table>

**Examples**
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks')"/>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
      <Output TaskParameter="ExitCode" PropertyName="Exit" />
      <Output TaskParameter="ReturnCode" PropertyName="Return" />
    <Message Text="ExitCode = $(Exit)" />
    <Message Text="ReturnCode = $(Return)" />
  </Target>
</Project>

See Also

Reference

MSBuild.ExtensionPack.FileSystem Namespace

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RoboCopy Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
RoboCopy Class
MSBuild.ExtensionPack.FileSystem Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
RoboCopy Properties

The RoboCopy type exposes the following members.

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Destination</td>
<td>Destination Dir (drive:\path or \server\share\path).</td>
</tr>
<tr>
<td>Files</td>
<td>File(s) to copy (names/wildcards: default is &quot;<em>.</em>&quot;).</td>
</tr>
<tr>
<td>LogToConsole</td>
<td>Set to true to log output to the console. Default is false.</td>
</tr>
<tr>
<td>Options</td>
<td>Type 'robocopy.exe /?' at the command prompt for all available options</td>
</tr>
<tr>
<td>ReturnCode</td>
<td>Gets the Return Code from RoboCopy</td>
</tr>
<tr>
<td>Source</td>
<td>Source Directory (drive:\path or \server\share\path).</td>
</tr>
</tbody>
</table>

See Also

Reference

RoboCopy Class
MSBuild.ExtensionPack.FileSystem Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
RoboCopyDestination Property

Destination Dir (drive:\path or \server\share\path).

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
RoboCopy Class
MSBuild.ExtensionPack.FileSystem Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
RoboCopyFiles Property  MSBuild Extension Pack Help 4.0.12.0

File(s) to copy (names/wildcards: default is "*.*").

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
RoboCopy Class
MSBuild.ExtensionPack.FileSystem Namespace

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RoboCopyLogToConsole Property

Set to true to log output to the console. Default is false

**Namespace:** MSBuild.ExtensionPack.FileSystem

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  Version: 4.0.0.0

See Also

Reference

RoboCopy Class
MSBuild.ExtensionPack.FileSystem Namespace

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RoboCopyOptions

Property

Type 'robocopy.exe /?' at the command prompt for all available options

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
RoboCopy Class
MSBuild.ExtensionPack.FileSystem Namespace
RoboCopyReturnCode Property

Gets the Return Code from RoboCopy

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
RoboCopy Class
MSBuild.ExtensionPack.FileSystem Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**RoboCopySource Property**

Source Directory (drive:\path or \server\share\path).

**Namespace:** MSBuild.ExtensionPack.FileSystem

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

**Reference**

RoboCopy Class

MSBuild.ExtensionPack.FileSystem Namespace

---

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Share Class

Valid TaskActions are:

*CheckExists* (Required: ShareName Output: Exists)

*Create* (Required: ShareName, SharePath Optional: Description, MaximumAllowed, CreateSharePath, AllowUsers, DenyUsers)

*Delete* (Required: ShareName)

*ModifyPermissions* (Required: ShareName Optional: AllowUsers, DenyUsers).

*SetPermissions* (Required: ShareName Optional: AllowUsers, DenyUsers). SetPermissions will reset all existing permissions.

Remote Execution Support: Yes

Inheritance Hierarchy

SystemObject  Microsoft.Build.UtilitiesTask
               MSBuild.ExtensionPackBaseTask
               MSBuild.ExtensionPack.FileSystemShare

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The Share type exposes the following members.

 Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Share</td>
<td></td>
</tr>
</tbody>
</table>

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AllowUsers</td>
<td>Sets a collection of users allowed to access the share. Use the Permission metadata tag to specify permissions. Default is Full.</td>
</tr>
</tbody>
</table>
### Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\..\MSBuild.ExtensionPack.Tasks</TPath>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <ItemGroup>
      <Allow Include="ADomain\ADomainUser"/>
      <Allow Include="AMachine\ALocalReadUser">
        <Permission>Read</Permission>
      </Allow>
      <Allow Include="AMachine\ALocalChangeUser">
        <Permission>Change</Permission>
      </Allow>
    </ItemGroup>
    <!-- Delete shares -->
```
<!-- Create a share and specify users. The share will be created if it doesn't exist.
</Target>
</Project>

See Also

Reference
MSBuild.ExtensionPack.FileSystem Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
Share Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Share Class
MSBuild.ExtensionPack.FileSystem Namespace

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The **Share** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AllowUsers</strong></td>
<td>Sets a collection of users allowed to access the share. Use the Permission metadata tag to specify permissions. Default is Full.</td>
</tr>
<tr>
<td><strong>CreateSharePath</strong></td>
<td>Sets whether to create the SharePath if it doesn't exist. Default is false</td>
</tr>
<tr>
<td><strong>DenyUsers</strong></td>
<td>Sets a collection of users not allowed to access the share</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Sets the description for the share</td>
</tr>
<tr>
<td><strong>Exists</strong></td>
<td>Gets whether the share exists</td>
</tr>
<tr>
<td><strong>MaximumAllowed</strong></td>
<td>Sets the maximum number of allowed users for the share</td>
</tr>
<tr>
<td><strong>ShareName</strong></td>
<td>Sets the share name</td>
</tr>
<tr>
<td><strong>SharePath</strong></td>
<td>Sets the share path</td>
</tr>
</tbody>
</table>

## See Also

### Reference

**Share Class**

**MSBuild.ExtensionPack.FileSystem Namespace**

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**ShareAllowUsers Property**

Sets a collection of users allowed to access the share. Use the Permission metadata tag to specify permissions. Default is Full.

```xml
<Allow Include="AUser">
  <Permission>Full, Read or Change etc</Permission>
</Allow>
```

**Namespace:** MSBuild.ExtensionPack.FileSystem

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

Reference

- Share Class

---

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ShareCreateSharePath Property

Sets whether to create the SharePath if it doesn't exist. Default is false

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Share Class
MSBuild.ExtensionPack.FileSystem Namespace

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ShareDenyUsers Property

Sets a collection of users not allowed to access the share

**Namespace:** MSBuild.ExtensionPack.FileSystem

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

### See Also

**Reference**

Share Class

MSBuild.ExtensionPack.FileSystem Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
ShareDescription Property

Sets the description for the share

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Share Class
MSBuild.ExtensionPack.FileSystem Namespace

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**ShareExists Property**

Gets whether the share exists

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

Share Class  
MSBuild.ExtensionPack.FileSystem Namespace

---

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ShareMaximumAllowed Property

Sets the maximum number of allowed users for the share

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Share Class
MSBuild.ExtensionPack.FileSystem Namespace

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ShareName Property

Sets the share name

**Namespace:** MSBuild.ExtensionPack.FileSystem

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

**See Also**

Reference

Share Class

MSBuild.ExtensionPack.FileSystem Namespace

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**SharePath Property**

Sets the share path

**Namespace:** MSBuild.ExtensionPack.FileSystem  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
Share Class  
MSBuild.ExtensionPack.FileSystem Namespace

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Overview

This namespace hosts tasks that can be used to work with elements of the .net framework

Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
</table>
| **Assembly**      | **Valid TaskActions are:**  
|                   | *GetInfo* *(Required: NetAssembly Output: OutputItems)*  
|                   | *GetMethodInfo* *(Required: NetAssembly, NetClass, Output: OutputItems)*  
|                   | *Invoke* *(Required: NetAssembly Optional: NetMethod, NetArguments Output: ReturnValue)*  
|                   | **Remote Execution Support:** No  |
| **AssemblyInfo**  | The AssemblyInfo task provides a way to manipulate the content of AssemblyInfo files at build time. It works with C#, VB, and J# AssemblyInfo files.  
|                   | This task is based on the AssemblyInfo task written by Neil Enns (http://code.msdn.microsoft.com/AssemblyInfoTaskvers). It is used here with permission.  |
| **AsyncExec**     | Asynchronously runs a specified program or command with no arguments. This is similar to the Exec Task: http://msdn.microsoft.com/en-us/library/x8zx72cd.aspx.  
|                   | This task is useful when you need to run a fire-and-forget command-line task during the build process.  
|                   | Note that that is a fire and forget call. No errors are handled.  |
| **CommandLine**   | Launches command-line executables with robust warning and error message integration in MSBuild and Visual Studio. This is an expanded version of the Exec Task: http://msdn.microsoft.com/en-us/library/x8zx72cd.aspx.  |
| **ConfigManager** | Task used to work with the .NET framework web.config and machine config files **Valid TaskActions are:**  |
**ProtectConfigSection** *(Required: Section Optional: Site, Path, ConfigurationFileType, ProtectionProvider, SaveMode)*

**RemoveAppSetting** *(Required: SettingName Optional: Site, Path, ConfigurationFileType, SaveMode)*

**RemoveConnectionString** *(Required: SettingName Optional: Site, Path, ConfigurationFileType, SaveMode)*

**SetAppSetting** *(Required: SettingName Optional: Site, Path, SettingValue, ConfigurationFileType, SaveMode)*

**SetConnectionString** *(Required: SettingName Optional: Site, Path, SettingValue, ConfigurationFileType, SaveMode)*

**UnprotectConfigSection** *(Required: Section Optional: Site, Path, ConfigurationFileType, SaveMode)*

### DateAndTime

Valid TaskActions are:

- **AddDays** *(Required: Format, Value Optional: Start Output: Result)*
- **AddHours** *(Required: Format, Value Optional: Start Output: Result)*
- **AddMilliseconds** *(Required: Format, Value Optional: Start Output: Result)*
- **AddMinutes** *(Required: Format, Value Optional: Start Output: Result)*
- **AddMonths** *(Required: Format, Value Optional: Start Output: Result)*
- **AddSeconds** *(Required: Format, Value Optional: Start Output: Result)*
- **AddTicks** *(Required: Format, Value Optional: Start Output: Result)*
- **AddYears** *(Required: Format, Value Optional: Start Output: Result)*
- **CheckBetween** *(Required: Start, End Optional: UseUtc Output: BoolResult)*
- **CheckLater** *(Required: Start Optional: UseUtc Output: BoolResult)*
- **Get** *(Required: Format Optional: UseUtc Output: Result)*
- **GetElapsed** *(Required: Format, Start Optional: End, UseUtc Output: Result)*

Remote Execution Support: NA
### DynamicExecute

**Valid TaskActions are:**

- **Define (Required):** Code **Optional:** Inputs, Outputs, References, UsingNamespaces, NoDefaultParameters, NoDefaultReferences, NoDefaultUsingNamespaces **Output:** OutputMethodId. Defines and compiles a new method, which can then be used to create a closure.

- **Create (Required):** MethodId **Output:** OutputClosureId. Creates a new closure. All input and output arguments for this closure are set to their default values.

- **SetInput (Required):** ClosureId, Name, InputValue. Sets an argument value for a closure.

- **Invoke (Required):** ClosureId. Invokes a closure.

- **GetOutput (Required):** ClosureId, Name **Output:** OutputValue. Retrieves a result value (output parameter value) from a closure.

- **Destroy (Required):** ClosureId. Disposes of a closure. The closure ID is no longer valid after this task action.

- **Call (Required):** MethodId **Optional:** Input1, Input2, Input3 **Output:** Output1, Output2, Output3. Calls a method with up to three inputs, returning up to three outputs. Internally, creates a closure, sets the input parameters, invokes it, retrieves the output parameters, and destroys it.

- **Run (Required):** Code **Optional:** Inputs, Outputs, References, UsingNamespaces, NoDefaultParameters, NoDefaultReferences, NoDefaultUsingNamespaces, Input1, Input2, Input3 **Output:** Output1, Output2, Output3, OutputMethodId. Defines a method and runs it. The task outputs include the outputs from the method as well as the method identifier.

**Remote Execution Support:** None.

### Gac

**Valid TaskActions are:**

- **AddAssembly (Required):** AssemblyPath **Optional:** MachineName, RemoteAssemblyPath, UserName, UserPassword

- **CheckExists (Required):** AssemblyName **Optional:** MachineName

- **RemoveAssembly (Required):** AssemblyName **Optional:** MachineName, UserName, UserPassword

**Remote Execution Support:** Partial (not for CheckExists)

### GenericTool

This task can be used to wrap any executable

### Guid

**Valid TaskActions are:**

- **Create (Output):** GuidString, FormattedGuidString
<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CreateCrypto</td>
<td><strong>Output</strong>: GuidString, FormattedGuidString</td>
</tr>
<tr>
<td><strong>Remote Execution Support</strong>: NA</td>
<td></td>
</tr>
<tr>
<td>ILMerge</td>
<td>This task wraps ILMerge. This has been tested using ILMerge v2.10.0526</td>
</tr>
</tbody>
</table>
| Metadata           | Please note that this can be accomplished using vanilla MSBuild. See MSBuild metadata discussion. **Valid TaskActions are:**  
|                    | *Add (Required: Items, NewMetadata Output: NewItems)*                      |
| **Remote Execution Support**: NA |
| MSBuildHelper      | **Valid TaskActions are:**  
|                    | *Escape (Required: InputString Output: OutputString)*                       |
|                    | *FilterItems (Required: InputItems1, RegexPattern Optional: Metadata Output: OutputItems)* |
|                    | *FilterItemsOnMetadata (Required: InputItems1, InputItems2, Metadata Optional: Separator Output: OutputItems)* |
|                    | *GetCommonItems (Required: InputItems1, InputItems2 Output: OutputItems, ItemCount)* |
|                    | *GetCurrentDirectory (Output: CurrentDirectory)*                            |
|                    | *GetDistinctItems (Required: InputItems1, InputItems2 Output: OutputItems, ItemCount)* |
|                    | *GetItem (Required: InputItems1, PositionOutput: OutputItems)*              |
|                    | *GetItemCount (Required: InputItems1 Output: ItemCount)*                    |
|                    | *GetLastItem (Required: InputItems1Output: OutputItems)*                    |
|                    | *ItemColToString (Required: InputItems1 Optional: Separator Output: OutputString)* |
|                    | *RemoveDuplicateFiles (Required: InputItems1 Output: OutputItems, ItemCount)* |
|                    | *Sort (Required: InputItems1Output: OutputItems)*                           |
|                    | *StringToItemCol (Required: ItemString, Separator Output: OutputItems, ItemCount)* |
|                    | *UpdateMetadata (Required: InputItems1, InputItems2 Output: OutputItems)*   |
| **Parallel** | **Valid TaskActions are:**  
| BuildTargetsInParallel **(Required:** Targets **Optional:** AdditionalProperties, ProjectFile, WaitAll, WorkingDirectory, MultiLog, MultiLogOpenOnFailure, MultiLogVerbosity, MultiLogResponseVerbosity, MultiProc, MaxCpuCount, NodeReuse)  
| BuildTargetSetsInParallel **(Required:** Targets **Optional:** AdditionalProperties, ProjectFile, WaitAll, WorkingDirectory, MultiLog, MultiLogOpenOnFailure, MultiLogVerbosity, MultiLogResponseVerbosity, MultiProc, MaxCpuCount, NodeReuse)  
| **Remote Execution Support:** NA |

| **Path** | **Valid TaskActions are:**  
| ChangeExtension **(Required:** Filepath, Extension **Output:** Value)  
| Combine **(Required:** Filepath, Filepath2 **Output:** Value)  
| GetDirectoryName **(Required:** Filepath **Output:** Value)  
| GetExtension **(Required:** Filepath **Output:** Value)  
| GetFileName **(Required:** Filepath **Output:** Value)  
| GetFileNameWithoutExtension **(Required:** Filepath **Output:** Value)  
| GetFullPath **(Required:** Filepath **Output:** Value)  
| GetPathRoot **(Required:** Filepath **Output:** Value)  
| GetRandomFileName **(Output:** Value)  
| GetTempPath **(Output:** Value)  
| HasExtension **(Required:** Filepath **Output:** Value)  
| IsPathRooted **(Required:** Filepath **Output:** Value)  
| **Remote Execution Support:** NA |

| **Signing** | **Valid TaskActions are:**  
| AddSkipVerification **(Required:** PublicKeyToken **Optional:** ToolPath)  
| RemoveAllSkipVerification **(Optional:** ToolPath)  
| Sign **(Required:** Assemblies, KeyFile **Optional:** ToolPath)  
| **Remote Execution Support:** NA |
### SmartExec

Runs a specified program or command without blocking the UI. This is similar to the Exec Task: [http://msdn.microsoft.com/en-us/library/x8zx72cd.aspx](http://msdn.microsoft.com/en-us/library/x8zx72cd.aspx).

This task is useful when you need to run a long command-line task during the build process.

### TextString

**Valid TaskActions are:**

*Compare* (Required: String1, String2, Comparison Optional: IgnoreCase Output: Result)

*EndsWith* (Required: String1, String2 Optional: IgnoreCase Output: Result)

*Format* (Required: String1, Strings Output: NewString)

*GetLength* (Required: OldString Output: NewString)

*Insert* (Required: OldString, String1, StartIndex Output: NewString)

*PadLeft* (Required: OldString, String1 (1 char) Optional: Count Output: NewString)

*PadRight* (Required: OldString, String1 (1 char) Optional: Count Output: NewString)

*Remove* (Required: OldString, StartIndex Optional: Count Output: NewString)

*Replace* (Required: OldString, OldValue, NewValue Output: NewString)

*Split* (Required: String1, String2 Optional: StartIndex Output: Strings, NewString)

*StartsWith* (Required: String1, String2 Optional: IgnoreCase Output: Result)

*Substring* (Required: OldString Optional: StartIndex, Count Output: NewString)

*ToLower* (Required: OldString Output: NewString)

*ToUpper* (Required: OldString Output: NewString)

*Trim* (Required: OldString Output: NewString)

**Remote Execution Support:** NA

### Thread

**Valid TaskActions are:**

*Abort* (Warning: use only in exceptional circumstances to force an
<table>
<thead>
<tr>
<th>XProduct</th>
<th>This task creates a cross product of up to 10 ItemGroups</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Remote Execution Support:</strong></td>
<td>NA</td>
</tr>
</tbody>
</table>

### Enumerations

<table>
<thead>
<tr>
<th>Enumeration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DotNetConfigurationFile</td>
<td>Specifies how certain version numbers are incremented by the task.</td>
</tr>
</tbody>
</table>

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**Assembly Class**

Valid TaskActions are:

*GetInfo* (**Required**: NetAssembly **Output**: OutputItems)
*GetMethodInfo* (**Required**: NetAssembly, NetClass, **Output**: OutputItems)
*Invoke* (**Required**: NetAssembly **Optional**: NetMethod, NetArguments **Output**: ReturnValue)

Remote Execution Support: No

**Inheritance Hierarchy**

SystemObject  SystemMarshalByRefObject
  Microsoft.Build.UtilitiesAppDomainIsolatedTask
  MSBuild.ExtensionPackBaseAppDomainIsolatedTask
  MSBuild.ExtensionPack.FrameworkAssembly

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The Assembly type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🔄 Assembly</td>
<td></td>
</tr>
</tbody>
</table>

Top

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🔄 NetArguments</td>
<td>Sets the arguments to use for invoking a method. The arguments must be specified with a type, i.e. int</td>
</tr>
<tr>
<td>🔄 NetAssembly</td>
<td>Sets the name of the Assembly</td>
</tr>
<tr>
<td>🔄 NetClass</td>
<td>Sets the name of the Class</td>
</tr>
<tr>
<td>🔄 NetMethod</td>
<td>Sets the name of the Method. If this is not provided, a call is made to the default constructor.</td>
</tr>
</tbody>
</table>
**OutputItems**

Gets the output items. For a call to `GetMethodInfo`, `OutputItems` provides the following metadata:

- **Parameters**

  For a call to `GetInfo`, `OutputItems` provides the following metadata:

  - `AssemblyVersion`
  - `FileVersion`
  - `Culture`
  - `CultureDisplayName`
  - `FullName`
  - `PublicKeyToken`
  - `AssemblyInformationalVersion`

**Result**

Gets any Result that is returned

---

### Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)..\..\MSBuild</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)..\Common\MSBuild.ExtensionPack.tasks')"/>
    <Import Project="$(TPath)"/>
  </PropertyGroup>
  <Target Name="Default">
    <ItemGroup>
      <!-- define a set of arguments to use against an assembly -->
      <Args Include="1">
        <Type>int</Type>
      </Args>
      <Args Include="2">
        <Type>int</Type>
      </Args>
      <ArgsM Include="2.9845">
        <Type>decimal</Type>
      </ArgsM>
      <ArgsM Include="1.9845">
        <Type>decimal</Type>
      </ArgsM>
      <ArgsF Include="C:\Demo1 - Please Delete">
        <Type>string</Type>
      </ArgsF>
    </ItemGroup>
    <!-- Get information on an assembly -->
  </Target>
</Project>
```
  <Output TaskParameter="OutputItems" Item="%(TypeInfo.Identity)" />
  <Message Text="Identity: %(Info.Identity)" />
  <Message Text="FullName: %(Info.FullName)" />
  <Message Text="PublicKeyToken: %(Info.PublicKeyToken)" />
  <Message Text="Culture: %(Info.Culture)" />
  <Message Text="CultureDisplayName: %(Info.CultureDisplayName)" />
  <Message Text="FileVersion: %(InfoFileVersion)" />
<!-- This will cause a default constructor call if not already used -->
  <Output TaskParameter="Result" PropertyName="$(R)" />
<!-- Invoke the assembly with the args collection -->
  <Output TaskParameter="Result" PropertyName="$(R)" />
  <Output TaskParameter="Result" PropertyName="$(R)" />
<!-- Extract some information on the assembly interface -->
  <Output TaskParameter="OutputItems" Item="%(TypeInfo.Identity)" />
  <Message Text="%(TypeInfo.Identity) %(TypeInfo.Parameters)" />
</Target>
</Project>

See Also

Reference
MSBuild.ExtensionPack.Framework Namespace

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The **Assembly** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NetArguments</strong></td>
<td>Sets the arguments to use for invoking a method. The arguments must be specified with a type, i.e. int</td>
</tr>
<tr>
<td><strong>NetAssembly</strong></td>
<td>Sets the name of the Assembly</td>
</tr>
<tr>
<td><strong>NetClass</strong></td>
<td>Sets the name of the Class</td>
</tr>
<tr>
<td><strong>NetMethod</strong></td>
<td>Sets the name of the Method. If this is not provided, a call is made to the default constructor.</td>
</tr>
<tr>
<td><strong>OutputItems</strong></td>
<td>Gets the outputitems. For a call to GetMethodInfo, OutputItems provides the following metadata: Parameters. For a call to GetInfo, OutputItems provides the following metadata: AssemblyVersion, AssemblyFileVersion, Culture, CultureDisplayName, FullName, PublicKeyToken, AssemblyInformationalVersion</td>
</tr>
<tr>
<td><strong>Result</strong></td>
<td>Gets any Result that is returned</td>
</tr>
</tbody>
</table>

## See Also

**Reference**

**Assembly Class**

**MSBuild.ExtensionPack.Framework Namespace**

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AssemblyNetArguments Property

Sets the arguments to use for invoking a method. The arguments must be specified with a type, i.e. int

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Assembly Class
MSBuild.ExtensionPack.Framework Namespace

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AssemblyNetAssembly Property

Sets the name of the Assembly

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also

**Reference**

- Assembly Class  

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**AssemblyNetClass Property**

Sets the name of the Class

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**

- Assembly Class

---

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AssemblyNetMethod

Property

Sets the name of the Method. If this is not provided, a call is made to the default constructor.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Assembly Class
MSBuild.ExtensionPack.Framework Namespace

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AssemblyOutputItems Property

Gets the output items.

For a call to GetMethodInfo, OutputItems provides the following metadata:
Parameters

For a call to GetInfo, OutputItems provides the following metadata:
AssemblyVersion, FileVersion, Culture, CultureDisplayName, FullName,
PublicKeyToken, AssemblyInformationalVersion

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

Assembly Class
MSBuild.ExtensionPack.Framework Namespace

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**AssemblyResult Property** MSBuild Extension Pack Help 4.0.12.0

Gets any Result that is returned

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

- Assembly Class  

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The AssemblyInfo task provides a way to manipulate the content of AssemblyInfo files at build time. It works with C#, VB, and J# AssemblyInfo files.

This task is based on the AssemblyInfo task written by Neil Enns (http://code.msdn.microsoft.com/AssemblyInfoTaskvers). It is used here with permission.

### Inheritance Hierarchy

```
System
  Object
  Microsoft.Build.UtilitiesTask
    MSBuild.ExtensionPack.Framework
      AssemblyInfo
```

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

The `AssemblyInfo` type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="AssemblyInfo" /></td>
<td>AssemblyInfo</td>
</tr>
</tbody>
</table>

### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Execute" /></td>
<td>Executes the AssemblyInfo task. (Overrides TaskExecute.)</td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="AssemblyBuildNumber" /></td>
<td>The build number of the assembly.</td>
</tr>
<tr>
<td><img src="image" alt="AssemblyBuildNumberFormat" /></td>
<td>The format string to apply when converting the build number to a text string.</td>
</tr>
<tr>
<td>Property</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>AssemblyBuildNumberType</td>
<td>The type of update to use when setting the AssemblyBuildNumber property.</td>
</tr>
<tr>
<td>AssemblyCompany</td>
<td>The company that created the assembly.</td>
</tr>
<tr>
<td>AssemblyConfiguration</td>
<td>The configuration of the assembly.</td>
</tr>
<tr>
<td>AssemblyCopyright</td>
<td>The copyright information for the assembly.</td>
</tr>
<tr>
<td>AssemblyCulture</td>
<td>The culture information for the assembly.</td>
</tr>
<tr>
<td>AssemblyDelaySign</td>
<td>Controls delay signing of the assembly.</td>
</tr>
<tr>
<td>AssemblyDescription</td>
<td>The description of the assembly.</td>
</tr>
<tr>
<td>AssemblyFileVersion</td>
<td>The complete version of the assembly file.</td>
</tr>
<tr>
<td>AssemblyIncludeSigningInformation</td>
<td>Controls whether assembly signing information is replaced in the AssemblyInfo files.</td>
</tr>
<tr>
<td>AssemblyInfoFiles</td>
<td>Specifies the list of AssemblyInfo files the task should update.</td>
</tr>
<tr>
<td>AssemblyInformationalVersion</td>
<td>The AssemblyInformationalVersion for the assembly.</td>
</tr>
<tr>
<td>AssemblyKeyFile</td>
<td>Specifies the key file used to sign the assembly.</td>
</tr>
<tr>
<td>AssemblyKeyName</td>
<td>Specifies the name of a key container within the CSP containing the key pair used to generate a strong name.</td>
</tr>
<tr>
<td>Property</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>AssemblyMajorVersion</td>
<td>The major version of the assembly.</td>
</tr>
<tr>
<td>AssemblyMinorVersion</td>
<td>The minor version of the assembly.</td>
</tr>
<tr>
<td>AssemblyProduct</td>
<td>The product name of the assembly.</td>
</tr>
<tr>
<td>AssemblyRevision</td>
<td>The revision of the assembly.</td>
</tr>
<tr>
<td>AssemblyRevisionFormat</td>
<td>The format string to apply when converting the revision to a text string.</td>
</tr>
<tr>
<td>AssemblyRevisionReset</td>
<td>Whether the AssemblyRevisionNumber will be reset to 0 when a DateString or Julian BuildNumberType is used in conjunction with an AutoIncrement AssemblyRevisionType.</td>
</tr>
<tr>
<td>AssemblyRevisionType</td>
<td>The type of update to use when setting the AssemblyRevision property.</td>
</tr>
<tr>
<td>AssemblyTitle</td>
<td>The title of the assembly.</td>
</tr>
<tr>
<td>AssemblyTrademark</td>
<td>The trademark information for the assembly.</td>
</tr>
<tr>
<td>AssemblyVersion</td>
<td>The complete version of the assembly.</td>
</tr>
<tr>
<td>ComVisible</td>
<td>Specifies whether the assembly is visible to COM.</td>
</tr>
<tr>
<td>FirstDayOfWeek</td>
<td>Set the first day of the week for IncrementMethod.YearWeekDay. Defaults to Monday</td>
</tr>
<tr>
<td>Guid</td>
<td>The GUID for the assembly.</td>
</tr>
<tr>
<td>MaxAssemblyFileVersion</td>
<td>Returns the largest assembly file version set by the task.</td>
</tr>
<tr>
<td>MaxAssemblyVersion</td>
<td>Returns the largest assembly version set by the task.</td>
</tr>
<tr>
<td>PaddingCount</td>
<td>Sets the number of padding digits to use, e.g. 4</td>
</tr>
<tr>
<td>PaddingDigit</td>
<td>Sets the padding digit to use, e.g. 0</td>
</tr>
<tr>
<td>SkipVersioning</td>
<td>Set to true to skip setting version information. Default is false.</td>
</tr>
<tr>
<td>StartDate</td>
<td>Sets the start date to use when using IncrementMethod.ElapsedDays</td>
</tr>
<tr>
<td>TextEncoding</td>
<td>The encoding to write the new file in. The default is UTF8</td>
</tr>
<tr>
<td>UpdateAssemblyInformationalVersion</td>
<td>Set to true to update the AssemblyInformationalVersion.</td>
</tr>
<tr>
<td>UseUtc</td>
<td>Set to true to use UTC Date / Time in calculations. Default is false.</td>
</tr>
</tbody>
</table>
Remarks

The primary use of the AssemblyInfo task is to set assembly version numbers at build time. The typical way to use it is to add the MSBuild.ExtensionPack.VersionNumber.Targets file to your project file, and to then specify properties in your project file to control the assembly version numbers.

Version numbers are of the form A.B.C.D, where:

- A is the major version
- B is the minor version
- C is the build number
- D is the revision

Typically the major and minor versions are fixed and do not change over the course of multiple daily builds. The build number is frequently set to increment on a daily basis, either starting at 1 and continuing from there, or as some representation of the date of the build. The revision is typically used to differentiate between multiple builds on the same day, usually starting at 1 and incrementing for each build.

To get the standard Visual Studio-style version simply add the MSBuild.ExtensionPack.VersionNumber.Targets file to your project. To override the default version numbers, such as the major and minor version, you can set the appropriate properties. For more information see the AssemblyMajorVersion and AssemblyMinorVersion items.

For use with Team Foundation Server, see this blog post: Team Build and the AssemblyInfo Task

How To: Auto-Increment Version Numbers for a Project The most common way to use the AssemblyInfo task is to add a reference to the MSBuild.ExtensionPack.VersionNumber.targets file to any project file whose AssemblyInfo you want to manage.

For standard .csproj, .vbproj, and .vjsproj files do the following:
Open the project in Visual Studio 2005 Right-click on the project in Solution Explorer and select Unload Project Right-click on the project in Solution Explorer and select Edit [project file] If the AssemblyInfoTask was installed into the Global Assembly Cache add the following line at the end of the project file after the last <Import> tag:

```xml
<Import Project="$(MSBuildExtensionsPath)\Microsoft\ExtensionPack\MSBuild.ExtensionPack\MSBuild.ExtensionPack.VersionNumber.targets"/>
```

If the AssemblyInfoTask was installed into the user's Application Data folder add the following line at the end of the project file after the last <Import> tag:

```xml
<Import Project="$(APPDATA)\Microsoft\MSBuild\ExtensionPack\MSBuild.ExtensionPack\MSBuild.ExtensionPack.VersionNumber.targets"/>
```

Save and close the project file Right-click on the project in Solution Explorer and select Reload Project With these project file modifications all builds will have auto-incrementing assembly and file versions of the following format:

1.0.date.revision

For example, the first build on November 10th, 2005 will have a version number of:

1.0.51110.00

Subsequent builds on the same day will have version numbers 1.0.51110.01, 1.0.51110.02, and so on.

Note: All AssemblyInfo.* files must have have entries with a starting value of "1.0.0.0" for AssemblyVersion and AssemblyFileVersion so the AssemblyInfoTask will work correctly. If these entries are missing from the files a build error will be generated.

Overriding the Default Version Number Behaviour In some situations the desired version number behaviour may be different than the defaults offered by the MSBuild.ExtensionPack.VersionNumber.targets file.

To set the assembly and file versions to specific numbers add the appropriate property to your project file. For example, to set the major version to 8, add the following two properties:

```xml
<AssemblyMajorVersion>8</AssemblyMajorVersion>
<AssemblyFileMajorVersion>8</AssemblyFileMajorVersion>
```
For more information see the assembly version properties reference.

Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\.\MSBuild
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\.\Common\MSBuild.ExtensionPack.tasks')">
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <ItemGroup>
      <AssemblyInfoFiles Include="C:\a\CommonAssemblyInfo.cs">
      <AssemblyInfoFiles1 Include="C:\a\CommonAssemblyInfo1.cs">
      <AssemblyInfoFiles2 Include="C:\a\CommonAssemblyInfo2.cs">
    </ItemGroup>
  <!-- Update an attribute and don't do any ve
  <!-- Version using YearWeekDay and set the s
  <!-- Version using the number of days elapsed
  </Target>
</Project>
```

See Also

Reference

MSBuild.ExtensionPack.Framework Namespace
AssemblyInfoAssemblyMajorVersion
AssemblyInfoAssemblyMinorVersion

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AssemblyInfo Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
AssemblyInfo Class
MSBuild.ExtensionPack.Framework Namespace

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The **AssemblyInfo** type exposes the following members.

## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🔄 Execute</td>
<td>Executes the AssemblyInfo task. (Overrides Task.Execute.)</td>
</tr>
</tbody>
</table>

## See Also

**Reference**

- AssemblyInfo Class
AssemblyInfoExecute Method

Executes the AssemblyInfo task.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
AssemblyInfo Class
MSBuild.ExtensionPack.Framework Namespace

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## AssemblyInfo Properties

MSBuild Extension Pack Help 4.0.12.0

The `AssemblyInfo` type exposes the following members.

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AssemblyBuildNumber</td>
<td>The build number of the assembly.</td>
</tr>
<tr>
<td>AssemblyBuildNumberFormat</td>
<td>The format string to apply when converting the build number to a text string.</td>
</tr>
<tr>
<td>AssemblyBuildNumberType</td>
<td>The type of update to use when setting the <code>AssemblyBuildNumber</code> property.</td>
</tr>
<tr>
<td>AssemblyCompany</td>
<td>The company that created the assembly.</td>
</tr>
<tr>
<td>AssemblyConfiguration</td>
<td>The configuration of the assembly.</td>
</tr>
<tr>
<td>AssemblyCopyright</td>
<td>The copyright information for the assembly.</td>
</tr>
<tr>
<td>AssemblyCulture</td>
<td>The culture information for the assembly.</td>
</tr>
<tr>
<td>AssemblyDelaySign</td>
<td>Controls delay signing of the assembly.</td>
</tr>
<tr>
<td>AssemblyDescription</td>
<td>The description of the assembly.</td>
</tr>
<tr>
<td>AssemblyFileBuildNumber</td>
<td>The build number of the assembly file.</td>
</tr>
<tr>
<td>AssemblyFileBuildNumberFormat</td>
<td>The format string to apply when converting the file build number to a text string.</td>
</tr>
<tr>
<td>AssemblyFileBuildNumberType</td>
<td>The type of update to use when setting the <code>AssemblyFileBuildNumber</code> property.</td>
</tr>
<tr>
<td>AssemblyFileMajorVersion</td>
<td>The major version of the assembly file.</td>
</tr>
<tr>
<td>AssemblyFileMinorVersion</td>
<td>The minor version of the assembly file.</td>
</tr>
<tr>
<td>AssemblyFileRevision</td>
<td>The revision of the assembly file.</td>
</tr>
<tr>
<td>AssemblyFileRevisionFormat</td>
<td>The format string to apply when converting the file revision to a text string.</td>
</tr>
<tr>
<td>AssemblyFileRevisionReset</td>
<td>Whether the <code>AssemblyFileRevisionNumber</code> will be reset to 0 when a <code>DateString</code> or Julian BuildNumberType is used in conjunction with an AutoIncrement <code>AssemblyRevisionType</code>.</td>
</tr>
<tr>
<td>AssemblyFileRevisionType</td>
<td>The type of update to use when setting the <code>AssemblyFileRevision</code> property.</td>
</tr>
<tr>
<td><strong>Property</strong></td>
<td>Description</td>
</tr>
<tr>
<td>------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>AssemblyFileVersion</td>
<td>The complete version of the assembly file.</td>
</tr>
<tr>
<td>AssemblyIncludeSigningInformation</td>
<td>Controls whether assembly signing information is replaced in the AssemblyInfo files.</td>
</tr>
<tr>
<td>AssemblyInfoFiles</td>
<td>Specifies the list of AssemblyInfo files the task should update.</td>
</tr>
<tr>
<td>AssemblyInformationalVersion</td>
<td>The AssemblyInformationalVersion for the assembly.</td>
</tr>
<tr>
<td>AssemblyKeyFile</td>
<td>Specifies the key file used to sign the assembly.</td>
</tr>
<tr>
<td>AssemblyKeyName</td>
<td>Specifies the name of a key container within the CSP containing the key pair used to generate a strong name.</td>
</tr>
<tr>
<td>AssemblyMajorVersion</td>
<td>The major version of the assembly.</td>
</tr>
<tr>
<td>AssemblyMinorVersion</td>
<td>The minor version of the assembly.</td>
</tr>
<tr>
<td>AssemblyProduct</td>
<td>The product name of the assembly.</td>
</tr>
<tr>
<td>AssemblyRevision</td>
<td>The revision of the assembly.</td>
</tr>
<tr>
<td>AssemblyRevisionFormat</td>
<td>The format string to apply when converting the revision to a text string.</td>
</tr>
<tr>
<td>AssemblyRevisionReset</td>
<td>Whether the AssemblyRevisionNumber will be reset to 0 when a DateTime or Julian BuildNumberType is used in conjunction with an AutoIncrement AssemblyRevisionType.</td>
</tr>
<tr>
<td>AssemblyRevisionType</td>
<td>The type of update to use when setting the AssemblyRevision property.</td>
</tr>
<tr>
<td>AssemblyTitle</td>
<td>The title of the assembly.</td>
</tr>
<tr>
<td>AssemblyTrademark</td>
<td>The trademark information for the assembly.</td>
</tr>
<tr>
<td>AssemblyVersion</td>
<td>The complete version of the assembly.</td>
</tr>
<tr>
<td>ComVisible</td>
<td>Specifies whether the assembly is visible to COM.</td>
</tr>
<tr>
<td>FirstDayOfWeek</td>
<td>Set the first day of the week for IncrementMethod.YearWeekDay. Defaults to Monday</td>
</tr>
<tr>
<td>Guid</td>
<td>The GUID for the assembly.</td>
</tr>
<tr>
<td>MaxAssemblyFileVersion</td>
<td>Returns the largest assembly file version set by the task.</td>
</tr>
<tr>
<td>MaxAssemblyVersion</td>
<td>Returns the largest assembly version set by the task.</td>
</tr>
<tr>
<td>Property</td>
<td>Description</td>
</tr>
<tr>
<td>----------</td>
<td>-------------</td>
</tr>
<tr>
<td>PaddingCount</td>
<td>Sets the number of padding digits to use, e.g. 4</td>
</tr>
<tr>
<td>PaddingDigit</td>
<td>Sets the padding digit to use, e.g. 0</td>
</tr>
<tr>
<td>SkipVersioning</td>
<td>Set to true to skip setting version information. Default is false.</td>
</tr>
<tr>
<td>StartDate</td>
<td>Sets the start date to use when using IncrementMethod.ElapsedDays</td>
</tr>
<tr>
<td>TextEncoding</td>
<td>The encoding to write the new file in. The default is UTF8</td>
</tr>
<tr>
<td>UpdateAssemblyInformationalVersion</td>
<td>Set to true to update the AssemblyInformationalVersion.</td>
</tr>
<tr>
<td>UseUtc</td>
<td>Set to true to use UTC Date / Time in calculations. Default is false.</td>
</tr>
</tbody>
</table>

### See Also

**Reference**

- **AssemblyInfo Class**
- **MSBuild.ExtensionPack.Framework Namespace**

---

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AssemblyInfoAssemblyBuildNumber Property

The build number of the assembly.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

Remarks

To change the assembly build number set this to the specific build number you want. In most cases you do not want to use this property. Instead, use the
AssemblyBuildNumberType and AssemblyBuildNumberFormat properties to have this value determined automatically at build time.

To force the build number to a specific value when using the MSBuild.ExtensionPack.VersionNumber.Targets, use the
AssemblyBuildNumber property, and set the AssemblyBuildNumberFormat property to DirectSet.

Examples

```xml
<AssemblyBuildNumber>0</AssemblyBuildNumber>
<AssemblyBuildNumberType>DirectSet</AssemblyBuildNumberType>
```

See Also

Reference
AssemblyInfo Class
MSBuild.ExtensionPack.Framework Namespace
AssemblyInfoAssemblyBuildNumberType
AssemblyInfoAssemblyBuildNumberFormat

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**AssemblyInfoAssemblyBuildNumberFormat Property**

The format string to apply when converting the build number to a text string.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

Use this property to control the formatting of the build number when it is converted from a number to a string. This is particularly useful when used in conjunction with the `DateFormat` or `AutoIncrement` methods of setting the build number. Any valid .NET formatting string can be specified.

**Examples**

```
<AssemblyBuildNumberType>DateFormat</AssemblyBuildNumberType>
<AssemblyBuildNumberFormat>yyMMdd</AssemblyBuildNumberFormat>
```

**See Also**

Reference  
AssemblyInfo Class  
MSBuild.ExtensionPack.Framework Namespace  
AssemblyInfoAssemblyBuildNumberType

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AssemblyInfo AssemblyBuildNumberType Property

The type of update to use when setting the AssemblyBuildNumber property.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

Remarks

The AssemblyBuildNumber can be set using several different methods. The AssemblyBuildNumberType property is used to select the desired method. The supported types are defined in the IncrementMethod enumeration.

When using the MSBuild.ExtensionPack.VersionNumber.Targets file the default setting is DateFormat. To override this set the AssemblyBuildNumberType property.

Examples

<AssemblyBuildNumberType>DateFormat</AssemblyBuildNumberType>
<AssemblyBuildNumberFormat>yyMMdd</AssemblyBuildNumberFormat>

See Also

Reference
AssemblyInfo Class
MSBuild.ExtensionPack.Framework Namespace
AssemblyInfo AssemblyBuildNumberFormat

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**AssemblyCompany Property**

The company that created the assembly.

**Namespace:** MSBuild.ExtensionPack/Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
Version: 4.0.0.0

**Remarks**

To change the assembly company set this to the specific company name you want. For example, for Visual Studio 2005 this is set to "Microsoft Corporation".


**Examples**

```xml
<AssemblyCompany>Microsoft Corporation</AssemblyCompany>
```

**See Also**

Reference

AssemblyInfo Class

MSBuild.ExtensionPack.Framework Namespace

---

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**AssemblyInfoAssemblyConfiguration Property**

The configuration of the assembly.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

To change the *assembly configuration text* set this to the specific configuration text you want.


**Examples**

```xml
<AssemblyConfiguration>Debug</AssemblyConfiguration>
```

**See Also**

Reference  
**AssemblyInfo Class**  
**MSBuild.ExtensionPack.Framework Namespace**

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**AssemblyInfo**

**AssemblyCopyright**

The copyright information for the assembly.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

## Remarks

To change the *assembly copyright* set this to the specific copyright text you want. For example, for Visual Studio 2005 assemblies this is set to "Microsoft Corporation. All rights reserved.".

When using the MSBuild.ExtensionPack.VersionNumber.Targets file set this using the *AssemblyCopyright* property.

## Examples

```xml
<AssemblyCopyright>Microsoft Corporation. All rights reserved.</AssemblyCopyright>
```

## See Also

**Reference**

- AssemblyInfo Class  

---

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Remarks

To change the assembly culture set this to the specific culture text you want. For example, for the English satellite resources this is set to "en".


Examples

```
<AssemblyCulture>en</AssemblyCulture>
```

See Also

- AssemblyInfo Class

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AssemblyInfo\AssemblyDelaySign Property

Controls delay signing of the assembly.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

Remarks

To enable delay signing of the assembly set this property to "true".


Examples

```xml
<AssemblyDelaySign>false</AssemblyDelaySign>
```

See Also

Reference
AssemblyInfo Class
MSBuild.ExtensionPack.Framework Namespace

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**AssemblyInfoAssemblyDescription** MSBuild Extension Pack Help 4.0.12.0

**Property**

The description of the assembly.

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**Remarks**

To change the assembly description set this to the specific description you want. For example, for Visual Studio 2005 this is set to "Microsoft Visual Studio 2005".

When using the MSBuild.ExtensionPack.VersionNumber.Targets file set this using the AssemblyDescription property.

**Examples**

```
<AssemblyDescription>Microsoft Visual Studio 2005</AssemblyDescription>
```

**See Also**

Reference

AssemblyInfo Class

MSBuild.ExtensionPack.Framework Namespace

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**AssemblyInfo.AssemblyFileBuildNumber Property**

The build number of the assembly file.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

To change the assembly file build number set this to the specific build number you want. In most cases you do not want to use this property. Instead, use the `AssemblyFileBuildNumberType` and `AssemblyFileBuildNumberFormat` properties to have this value determined automatically at build time.

To force the build number to a specific value when using the MSBuild.ExtensionPack.VersionNumber.Targets, use the `AssemblyFileBuildNumber` property, and set the `AssemblyFileBuildNumberFormat` property to `DirectSet`.

**Examples**

```xml
<AssemblyFileBuildNumber>0</AssemblyFileBuildNumber>
<AssemblyFileBuildNumberType>DirectSet</AssemblyFileBuildNumberType>
```

**See Also**

Reference

AssemblyInfo Class  
MSBuild.ExtensionPack.Framework Namespace  
AssemblyInfo.AssemblyFileBuildNumberType  
AssemblyInfo.AssemblyFileBuildNumberFormat

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AssemblyInfoAssemblyFileBuildNumberFormat

Property

The format string to apply when converting the file build number to a text string.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

Remarks

Use this property to control the formatting of the file build number when it is converted from a number to a string. This is particularly useful when used in conjunction with the DateFormat or AutoIncrement methods of setting the file build number. Any valid .NET formatting string can be specified.

Examples

<AssemblyFileBuildNumberType>DateFormat</AssemblyFileBuildNumberType>
<AssemblyFileBuildNumberFormat>yyMMdd</AssemblyFileBuildNumberFormat>

See Also

Reference
AssemblyInfo Class
MSBuild.ExtensionPack.Framework Namespace
AssemblyInfoAssemblyFileBuildNumberType

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AssemblyInfoAssemblyFileBuildNumberType

Property

The type of update to use when setting the `AssemblyFileBuildNumber` property.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

Remarks

The `AssemblyFileBuildNumber` can be set using several different methods. The `AssemblyFileBuildNumberType` property is used to select the desired method. The supported types are defined in the `IncrementMethod` enumeration.

When using the `MSBuild.ExtensionPack.VersionNumber.Targets` file the default setting is `DateFormat`. To override this set the `AssemblyFileBuildNumberType` property.

Examples

```
<AssemblyFileBuildNumberType>DateFormat</AssemblyFileBuildNumberType>
<AssemblyFileBuildNumberFormat>yyMMdd</AssemblyFileBuildNumberFormat>
```

See Also

**Reference**

- AssemblyInfo Class
- AssemblyInfoAssemblyFileBuildNumberFormat

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AssemblyFileMajorVersion Property

The major version of the assembly file.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

Remarks

To change the assembly file major version set this to the specific major version you want. For example, for Visual Studio 2005 build 8.0.50727.42 this is set to "8".


Examples

```xml
<AssemblyFileMajorVersion>8</AssemblyFileMajorVersion>
```

See Also

Reference
AssemblyInfo Class
MSBuild.ExtensionPack.Framework Namespace

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**AssemblyFileInfo.AssemblyFileMinorVersion** Property

The minor version of the assembly file.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**Remarks**

To change the assembly file minor version set this to the specific minor version you want. For example, for Visual Studio 2005 build 8.0.50727.42 this is set to "0".


**Examples**

```xml
<AssemblyFileMinorVersion>0</AssemblyFileMinorVersion>
```

**See Also**

Reference

AssemblyInfo Class  
MSBuild.ExtensionPack.Framework Namespace

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**AssemblyInfoAssemblyFileRevision Property**

The revision of the assembly file.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

**Remarks**

To change the assembly file revision set this to the specific revision number you want. In most cases you do not want to use this property. Instead, use the `AssemblyFileRevisionNumberType` and `AssemblyFileRevisionNumberFormat` properties to have this value determined automatically at build time.

To force the revision number to a specific value when using the MSBuild.ExtensionPack.VersionNumber.Targets, set the `AssemblyFileRevision` property to the value and set the `AssemblyFileRevisionFormat` property to `DirectSet`.

**Examples**

```xml
<AssemblyFileRevision>0</AssemblyFileRevision>
<AssemblyFileRevisionType>DirectSet</AssemblyFileRevisionType>
```

**See Also**

Reference  
**AssemblyInfo Class**  
**MSBuild.ExtensionPack.Framework Namespace**  
**AssemblyInfoAssemblyRevisionType**  
**AssemblyInfoAssemblyRevisionFormat**

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Remarks

Use this property to control the formatting of the file revision when it is converted from a number to a string. This is particularly useful when used in conjunction with the DateFormat or AutoIncrement methods of setting the file revision. Any valid .NET formatting string can be specified.

Examples

```
<AssemblyFileVersionType>AutoIncrement</AssemblyFileVersionType>
<AssemblyFileVersionFormat>00</AssemblyFileVersionFormat>
```

See Also

Reference

- AssemblyInfo Class
- AssemblyInfoAssemblyBuildNumberType
**AssemblyInfoAssemblyFileRevisionReset Property**

Whether the AssemblyFileRevisionNumber will be reset to 0 when a DateTimeString or Julian BuildNumberType is used in conjunction with an AutoIncrement AssemblyRevisionType.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

When using the MSBuild.ExtensionPack.VersionNumber.Targets file, the default setting is True. To override this set the AssemblyFileRevisionReset property.

**Examples**

```
<AssemblyFileRevisionReset>False</AssemblyFileRevisionReset>
```

**See Also**

Reference  
AssemblyInfo Class  
MSBuild.ExtensionPack.Framework Namespace  
AssemblyInfoAssemblyRevisionFormat  
AssemblyInfoAssemblyRevisionType  

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**AssemblyInfo.AssemblyFileRevisionType Property**

The type of update to use when setting the [AssemblyFileRevision](#) property.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

### Remarks

The AssemblyFileRevision can be set using several different methods. The AssemblyFileRevisionType property is used to select the desired method. The supported types are defined in the [IncrementMethod](#) enumeration.

When using the MSBuild.ExtensionPack.VersionNumber.Targets file the default setting is AutoIncrement. To override this set the AssemblyFileRevisionType property.

### Examples

```xml
<AssemblyFileRevisionType>AutoIncrement</AssemblyFileRevisionType>
<AssemblyFileRevisionFormat>00</AssemblyFileRevisionFormat>
```

### See Also

**Reference**

- AssemblyInfo Class
- AssemblyInfo.AssemblyFileRevisionFormat

---

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**AssemblyInfoAssemblyFileVersion**  MSBuild Extension Pack Help 4.0.12.0

**Property**

The complete version of the assembly file.

**Namespace:**  MSBuild.ExtensionPack.Framework  
**Assembly:**  MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:**  4.0.0.0

**Remarks**

Use AssemblyFileVersion to directly set the entire file version number with a single parameter. For example, if you know you want your version to be "1.2.3.4", you can set AssemblyVersion to this instead of having to use each of the individual AssemblyVersion, AssemblyFileVersion, AssemblyVersionBuildNumber, and AssemblyFileVersionRevision properties.

Note that the other four properties override this one. For example, If you set AssemblyVersion to "1.2.3.4" and then set AssemblyFileVersionMinorVersion to 6, the resulting version will be "1.6.3.4".

This property is an input only. If you want to know what the final version generated was, use the MaxAssemblyFileVersion output property instead.

When using the MSBuild.ExtensionPack.VersionNumber.Targets file the best way to specify this is to set the AssemblyVersion property.

**Examples**

```xml
<AssemblyFileVersion>1.2.3.4</AssemblyFileVersion>
```

**See Also**

**Reference**

AssemblyInfo Class  
MSBuild.ExtensionPack.Framework Namespace  
AssemblyInfoMaxAssemblyFileVersion

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**AssemblyInfo.AssemblyIncludeSigningInformation**

*Property*

Controls whether assembly signing information is replaced in the AssemblyInfo files.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

This property controls whether the AssemblyDelaySign, AssemblyKeyFile and AssemblyKeyName properties are written out to the assembly info files. In order for either of those three properties to persist, AssemblyIncludeSigningInformation must be set to true.

When using the MSBuild.ExtensionPack.VersionNumber.Targets file set this using the AssemblyIncludeSigningInformation property. By default this is set to false.

**Examples**

```xml
<AssemblyIncludeSigningInformation>true</AssemblyIncludeSigningInformation>
<AssemblyDelaySign>true</AssemblyDelaySign>
```

**See Also**

- Reference  
  - AssemblyInfo Class  

---

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AssemblyInfoAssemblyInfoFiles Property

Specifies the list of AssemblyInfo files the task should update.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

Use the AssemblyInfoFile property to provide the task with the list of AssemblyInfo files that should be updated by the task. This can be a mix of VB, C# and J# AssemblyInfo Files.

When using the MSBuild.ExtensionPack.VersionNumber.Targets file add items to the AssemblyInfoFiles item group to have them processed by the task.

**Examples**

```xml
<!-- Add all AssemblyInfo files in all sub-directories that should be processed by the task -->
<ItemGroup>
    <AssemblyInfoFiles>**\AssemblyInfo.*</AssemblyInfoFiles>
</ItemGroup>
```

**See Also**

Reference  
AssemblyInfo Class  
MSBuild.ExtensionPack.Framework Namespace

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AssemblyInfo AssemblyInformationalVersion Property

The AssemblyInformationalVersion for the assembly.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

Remarks

The AssemblyInformationalVersion attribute attaches additional version information to an assembly. If this attribute is applied to an assembly, the string it specifies can be obtained at run time by using the Application.ProductVersion property. The string is also used in the path and registry key provided by the Application.UserAppDataPath property and the Application.UserAppDataRegistry property. If the AssemblyInformationalVersionAttribute is not applied to an assembly, the version number specified by the AssemblyVersionAttribute attribute is used instead. Although you can specify any text, a warning message appears on compilation if the string is not in the format used by the assembly version number, or if it is in that format but contains wildcard characters. This warning is harmless.

Examples

Copy

```
<AssemblyInformationalVersion>1.2.3.4</AssemblyInformationalVersion>
```

See Also

Reference
AssemblyInfo Class
MSBuild.ExtensionPack.Framework Namespace

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AssemblyInfo\AssemblyKeyFile Property

Specifies the key file used to sign the assembly.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

Remarks

To specify the key file used to sign the compiled assembly set this to the file name of the key file.


Examples

<AssemblyKeyFile>c:\key.snk</AssemblyKeyFile>

See Also

Reference
AssemblyInfo Class
MSBuild.ExtensionPack.Framework Namespace

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AssemblyKeyName Property

Specifies the name of a key container within the CSP containing the key pair used to generate a strong name.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

Remarks

To specify the key used to sign the compiled assembly set this to the name of the key container.

When using the MSBuild.ExtensionPack.VersionNumber.Targets file set this using the AssemblyKeyName property.

Examples

```
<AssemblyKeyName>myContainer</AssemblyKeyName>
```

See Also

Reference
AssemblyInfo Class
MSBuild.ExtensionPack.Framework Namespace

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**AssemblyInfoAssemblyMajorVersion Property**

The major version of the assembly.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

### Remarks

To change the assembly major version set this to the specific major version you want. For example, for Visual Studio 2005 build 8.0.50727.42 this is set to "8".


### Examples

```xml
<AssemblyMajorVersion>8</AssemblyMajorVersion>
```

### See Also

**Reference**

- AssemblyInfo Class

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**AssemblyInfo.AssemblyMinorVersion Property**

The minor version of the assembly.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

To change the assembly minor version set this to the specific minor version you want. For example, for Visual Studio 2005 build 8.0.50727.42 this is set to "0".


**Examples**

```xml
<AssemblyMinorVersion>0</AssemblyMinorVersion>
```

**See Also**

Reference

- **AssemblyInfo Class**
- **MSBuild.ExtensionPack.Framework Namespace**

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**AssemblyInfo Assembly Product Property**

The product name of the assembly.

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  Version: 4.0.0.0

**Remarks**

To change the **assembly company** set this to the specific company name you want. For example, for Visual Studio 2005 assemblies this is set to "Microsoft Visual Studio 2005".


**Examples**

```xml
<AssemblyProduct>Microsoft Visual Studio 2005</AssemblyProduct>
```

**See Also**

Reference

AssemblyInfo Class

MSBuild.ExtensionPack.Framework Namespace

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AssemblyInfoAssemblyRevision Property

The revision of the assembly.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

Remarks

To change the assembly revision set this to the specific revision number you want. In most cases you do not want to use this property. Instead, use the AssemblyRevisionNumberType and AssemblyRevisionNumberFormat properties to have this value determined automatically at build time.

To force the revision number to a specific value when using the MSBuild.ExtensionPack.VersionNumber.Targets, set the AssemblyRevision property to the value and set the AssemblyRevisionFormat property to DirectSet.

Examples

Copy

```xml
<AssemblyRevision>0</AssemblyRevision>
<AssemblyRevisionType>DirectSet</AssemblyRevisionType>
```

See Also

Reference

AssemblyInfo Class
MSBuild.ExtensionPack.Framework Namespace
AssemblyInfoAssemblyRevisionType
AssemblyInfoAssemblyRevisionFormat

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**AssemblyInfoAssemblyRevisionFormat Property**

The format string to apply when converting the revision to a text string.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

Use this property to control the formatting of the revision when it is converted from a number to a string. This is particularly useful when used in conjunction with the `DateFormat` or `AutoIncrement` methods of setting the revision. Any valid .NET formatting string can be specified.

**Examples**

```xml
<AssemblyRevisionType>AutoIncrement</AssemblyRevisionType>
<AssemblyRevisionFormat>00</AssemblyRevisionFormat>
```

**See Also**

- **Reference**
  - AssemblyInfo Class
  - AssemblyInfoAssemblyBuildNumberType

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**AssemblyInfoAssemblyRevisionReset Property**

Whether the AssemblyRevisionNumber will be reset to 0 when a DateString or Julian BuildNumberType is used in conjunction with an AutoIncrement AssemblyRevisionType.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

When using the MSBuild.ExtensionPack.VersionNumber.Targets file, the default setting is True. To override this set the AssemblyRevisionReset property.

**Examples**

```xml
<AssemblyRevisionReset>False</AssemblyRevisionReset>
```

**See Also**

- AssemblyInfo Class
- AssemblyInfoAssemblyRevisionFormat
- AssemblyInfoAssemblyRevisionType

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**AssemblyInfoAssemblyRevisionType**

The type of update to use when setting the `AssemblyRevision` property.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

## Remarks

The `AssemblyRevision` can be set using several different methods. The `AssemblyRevisionType` property is used to select the desired method. The supported types are defined in the `IncrementMethod` enumeration.

When using the `MSBuild.ExtensionPack.VersionNumber.Targets` file the default setting is `AutoIncrement`. To override this set the `AssemblyRevisionType` property.

### Examples

```xml
<AssemblyRevisionType>AutoIncrement</AssemblyRevisionType>
<AssemblyRevisionFormat>00</AssemblyRevisionFormat>
```

## See Also

- **AssemblyInfo Class**  
- **MSBuild.ExtensionPack.Framework Namespace**  
- **AssemblyInfoAssemblyRevisionFormat**  
- **MSBuild.ExtensionPack.FrameworkIncrementMethod**
AssemblyInfoAssemblyTitle Property

The title of the assembly.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**Remarks**

To change the *assembly title* set this to the specific title you want. For example, for Visual Studio 2005 this is set to "Microsoft Visual Studio 2005".

When using the MSBuild.ExtensionPack.VersionNumber.Targets file set this using the *AssemblyTitle* property.

**Examples**

```xml
<AssemblyTitle>Microsoft Visual Studio 2005</AssemblyTitle>
```

**See Also**

Reference

AssemblyInfo Class
MSBuild.ExtensionPack.Framework Namespace

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AssemblyInfoAssemblyTrademark Property

The trademark information for the assembly.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

Remarks

To change the assembly trademark set this to the specific trademark text you want.


Examples

<AssemblyTrademark>Microsoft Corporation</AssemblyTrademark>

See Also

Reference
AssemblyInfo Class
MSBuild.ExtensionPack.Framework Namespace

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AssemblyInfo\AssemblyVersion  MSBuild Extension Pack Help 4.0.12.0

Property

The complete version of the assembly.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

Remarks

Use AssemblyVersion to directly set the entire version number with a single parameter. For example, if you know you want your version to be "1.2.3.4", you can set AssemblyVersion to this instead of having to use each of the individual AssemblyMajorVersion, AssemblyMinorVersion, AssemblyBuildNumber, and AssemblyRevision properties.

Note that the other four properties override this one. For example, If you set AssemblyVersion to "1.2.3.4" and then set AssemblyMinorVersion to 6, the resulting version will be "1.6.3.4".

This property is an input only. If you want to know what the final version generated was, use the MaxAssemblyVersion output property instead.

When using the MSBuild.ExtensionPack.VersionNumber.Targets file the best way to specify this is to set the AssemblyVersion property.

Examples

<AssemblyVersion>1.2.3.4</AssemblyVersion>

See Also

Reference
AssemblyInfo Class
MSBuild.ExtensionPack.Framework Namespace
AssemblyInfo\MaxAssemblyVersion

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AssemblyInfoComVisible Property

Specifies whether the assembly is visible to COM.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

To specify whether the assembly should be visible to COM set this to true and provide a valid GUID using the `Guid` property. The default value is `null`.


**Examples**

```xml
<AssemblyComVisible>myContainer</AssemblyComVisible>
```

**See Also**

Reference

AssemblyInfo Class  
MSBuild.ExtensionPack.Framework Namespace

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AssemblyInfoFirstDayOfWeek  MSBuild Extension Pack Help
Property

Set the first day of the week for IncrementMethod.YearOfWeekDay. Defaults to Monday

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
AssemblyInfo Class
MSBuild.ExtensionPack.Framework Namespace

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**AssemblyInfoGuid**

**Property**

The GUID for the assembly.

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**Remarks**

To change the GUID for the assembly set this to the specific GUID you want.


**Examples**

```xml
<AssemblyGuid>56269a04-c55a-4c5a-92ba-dfdb569bc708</AssemblyGuid>
```

**See Also**

Reference
AssemblyInfo Class
MSBuild.ExtensionPack.Framework Namespace

---

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**AssemblyInfoMaxAssemblyFileVersion Property**

Returns the largest assembly file version set by the task.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**Remarks**

Use this property to find out the largest assembly file version that was generated by the task. If only one assemblyinfo.* file was specified as an input, this will be the resulting assembly file version for that file. If more than one assemblyinfo.* file was specified, this will be the largest build number generated.

When using the MSBuild.ExtensionPack.VersionNumber.Targets file this value is placed in `MaxAssemblyFileVersion` property after the `UpdateAssemblyInfoFiles` target is run.

**See Also**

Reference  
AssemblyInfo Class  
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
AssemblyInfoMaxAssemblyVersion Property

Returns the largest assembly version set by the task.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

Remarks

Use this property to find out the largest assembly version that was generated by the task. If only one assemblyinfo.* file was specified as an input, this will be the resulting assembly version for that file. If more than one assemblyinfo.* file was specified, this will be the largest build number generated.

When using the MSBuild.ExtensionPack.VersionNumber.Targets file this value is placed in MaxAssemblyVersion property after the UpdateAssemblyInfoFiles target is run.

See Also

Reference
AssemblyInfo Class
MSBuild.ExtensionPack.Framework Namespace

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AssemblyInfo.PaddingCount Property

Sets the number of padding digits to use, e.g. 4

**Namespace:** Microsoft.Build.ExtensionPack.Framework


Version: 4.0.0.0

See Also

Reference

AssemblyInfo Class

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AssemblyInfoPaddingDigit Property

Sets the padding digit to use, e.g. 0

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
AssemblyInfo Class
MSBuild.ExtensionPack.Framework Namespace

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AssemblyInfoSkipVersioning Property

Set to true to skip setting version information. Default is false.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
AssemblyInfo Class
MSBuild.ExtensionPack.Framework Namespace

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AssemblyInfoStartDate Property

Sets the start date to use when using IncrementMethod.ElapsedDays

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
AssemblyInfo Class
MSBuild.ExtensionPack.Framework Namespace

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AssemblyInfoTextEncoding Property

The encoding to write the new file in. The default is UTF8

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
AssemblyInfo Class
MSBuild.ExtensionPack.Framework Namespace

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AssemblyInfoUpdateAssemblyInformationalVersion Property

Set to true to update the AssemblyInformationalVersion.

**Namespace:** MSBuild.ExtensionPack.Framework
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

Reference
AssemblyInfo Class
MSBuild.ExtensionPack.Framework Namespace

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AssemblyInfoUseUtc Property

Set to true to use UTC Date / Time in calculations. Default is false.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
AssemblyInfo Class
MSBuild.ExtensionPack.Framework Namespace

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AsyncExec Class

Asynchronously runs a specified program or command with no arguments. This is similar to the Exec Task: http://msdn.microsoft.com/en-us/library/x8zx72cd.aspx.

This task is useful when you need to run a fire-and-forget command-line task during the build process.

Note that that is a fire and forget call. No errors are handled.

Inheritance Hierarchy

System\Object \ Microsoft.Build.UtilitiesTask
  MSBuild.ExtensionPack.FrameworkAsyncExec

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The AsyncExec type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AsyncExec</td>
<td></td>
</tr>
</tbody>
</table>

Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Execute</td>
<td>executes the build operation. (Overrides Task.Execute.)</td>
</tr>
</tbody>
</table>

Properties

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<th>Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Command</td>
<td>Gets or sets the command(s) to run. These can be system commands, such as attrib, or an executable, such as program.exe, runprogram.bat, or setup.msi. This parameter can contain multiple lines of commands (each command on a new-</td>
</tr>
</tbody>
</table>
Alternatively, you can place multiple commands in a batch file and run it using this parameter.

Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"
  PropertyGroup>
  <TPath>$(MSBuildProjectDirectory)\.\.\MSBuild.ExtensionPack.tasks</TPath>
  <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\.Common\MSBuild.ExtensionPack.tasks')"></TPath>
  <Import Project="$(TPath)">
    <Target Name="Default">
    </Target>
  </Import>
</Project>
```

See Also

Reference

MSBuild.ExtensionPack.Framework Namespace

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AsyncExec Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
AsyncExec Class
MSBuild.ExtensionPack.Framework Namespace

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AsyncExec Methods

The AsyncExec type exposes the following members.

Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Execute</td>
<td>Executes the build operation. (Overrrides TaskExecute.)</td>
</tr>
</tbody>
</table>

See Also

AsyncExec Class

MSBuild.ExtensionPack.Framework Namespace
AsyncExecExecute
Method

Executes the build operation.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
AsyncExec Class
MSBuild.ExtensionPack.Framework Namespace

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The `AsyncExec` type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Command</td>
<td>Gets or sets the command(s) to run. These can be system commands, such as <code>attrib</code>, or an executable, such as <code>program.exe</code>, <code>runprogram.bat</code>, or <code>setup.msi</code>. This parameter can contain multiple lines of commands (each command on a newline). Alternatively, you can place multiple commands in a batch file and run it using this parameter.</td>
</tr>
</tbody>
</table>
AsyncExecCommand Property

Gets or sets the command(s) to run. These can be system commands, such as attrib, or an executable, such as program.exe, runprogram.bat, or setup.msi. This parameter can contain multiple lines of commands (each command on a new-line). Alternatively, you can place multiple commands in a batch file and run it using this parameter.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
AsyncExec Class
MSBuild.ExtensionPack.Framework Namespace

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**CommandLine Class**


**Inheritance Hierarchy**

- `System.Object`
- `Microsoft.Build.UtilitiesTask`

**Namespace:** `MSBuild.ExtensionPack.Framework`

**Assembly:** `MSBuild.ExtensionPack` (in `MSBuild.ExtensionPack.dll`) Version: 4.0.0.0

The `CommandLine` type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CommandLine</td>
<td></td>
</tr>
</tbody>
</table>

### Methods

<table>
<thead>
<tr>
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<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Execute</td>
<td>Executes the build operation. (Overrides <code>Task.Execute</code>.)</td>
</tr>
</tbody>
</table>

### Properties

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<td>Command</td>
<td>Gets or sets the command(s) to run. These can be system commands, such as attrib, or an executable, such as program.exe, runprogram.bat, or setup.msi. This parameter can contain multiple lines of commands (each command on a new-line). Alternatively, you can place multiple commands in a batch file and run it using this parameter.</td>
</tr>
<tr>
<td>CustomErrorRegularExpression</td>
<td>Gets or sets the error regular expression. Leaving this unset will result in no output errors.</td>
</tr>
<tr>
<td>Property</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>CustomWarningRegularExpression</td>
<td>Gets or sets the warning regular expression. Leaving this unset will result in no output warnings.</td>
</tr>
<tr>
<td>ExitCode</td>
<td>Gets the Int32 exit code provided by the executed command.</td>
</tr>
<tr>
<td>IgnoreExitCode</td>
<td>Gets or sets a value indicating whether to ignore the command exit code. If true, the task ignores the exit code provided by the executed command. Otherwise, the task returns false if the executed command returns an exit code that does not match SuccessExitCode.</td>
</tr>
<tr>
<td>IgnoreStandardErrorWarningFormat</td>
<td>Gets or sets a value indicating whether the output is examined for standard errors and warnings. This does not override errors and warnings defined via CustomErrorRegularExpression and CustomWarningRegularExpression.</td>
</tr>
<tr>
<td>Outputs</td>
<td>Gets or sets the output items from the task. The Execute task does not set these itself. Instead, you can provide them as if it did set them, so that they can be used later in the project.</td>
</tr>
<tr>
<td>StdErrEncoding</td>
<td>Gets or sets the StdErr stream encoding. Specifies the encoding of the captured task standard error stream. The default is the current console output encoding.</td>
</tr>
<tr>
<td>StdOutEncoding</td>
<td>Gets or sets the StdOut stream encoding. Specifies the encoding of the captured task standard output stream. The default is the current console output encoding.</td>
</tr>
<tr>
<td>SuccessExitCode</td>
<td>Gets or sets the success exit code for the command. Default is zero (0).</td>
</tr>
<tr>
<td>WorkingDirectory</td>
<td>Gets or sets the directory in which the command will run.</td>
</tr>
</tbody>
</table>

### Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\..\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists($(MSBuildProjectDirectory)\.\..\MSBuild.ExtensionPack.tasks)"
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default" DependsOnTargets="FxCop;JSLint"/>
  <Target Name="FxCop">
    <PropertyGroup Condition="'$(FxCopEnabled)' == 'true'"
```
<!-Regex for matching FxCop errors and warnings:
filename(line,column) : warning|error :? CAxxxx : <
[Location not stored in Pdb] : warning|error :? CAx
-->
<FxCopErrorRegularExpression>(?imnx-s:^((\[Location\ no
<TargetBinaryRoot Condition="'$(TargetBinaryRoot)' == '
<TargetFileName Condition="'$(TargetFileName)' == ''"
<PublicRoot Condition="'$(PublicRoot)' == ''"></
<FxCopVersion Condition="'$(FxCopVersion)' == ''"
<!-Build wide rule exclusions (format: -<Namespace>#<Che
None
-->
<FxCopRules Condition="'$(FxCopRules)' != ''">&quot;/ru
</PropertyGroup>
<!-- Use FxCopCmd.exe /? for information on the command-l
Command="&quot;$(PublicRoot)\FxCop\$(FxCopVersion)\FxCo
CustomErrorRegularExpression="$(FxCopErrorRegularExpres
ContinueOnError="true" />
</Target>
<ItemDefinitionGroup>
<JavaScript />
</ItemDefinitionGroup>
<Target Name="JSLint">
<PropertyGroup>
<!-Regex for matching JSLint (http://www.jslint.com) error
-->
<JSLintErrorRegularExpression>(?imnx-s:^cscript\s+\"[^"
<PublicRoot Condition="'$(PublicRoot)' == ''"></
<JSLintVersion Condition="'$(JSLintVersion)' == ''"
</PropertyGroup>
<ItemGroup>
<!-Include all *.js files under the project folder and s
Exclude all *.js files under the project bin, obj, or
-->


<JavaScript Include="**/*.js" Exclude="**\bin\*" />

<!-- Use cscript (Windows Script Host) to execute jslint.js
<!-- Information on JSLint: http://www.jslint.com
<MSBuild.ExtensionPack.Framework.CommandLine Command="cscript $(PublicRoot)\JSLint\$(JSLintVersion)\jslint.js $(JSLintErrorRegularExpression)" ContinueOnError="true" />

</Target>
</Project>

See Also

Reference

MSBuild.ExtensionPack.Framework Namespace

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CommandLine Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
CommandLine Class
MSBuild.ExtensionPack.Framework Namespace

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The `CommandLine` type exposes the following members.

### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Execute</td>
<td>Executes the build operation. (Overrides <code>Task.Execute</code>.)</td>
</tr>
</tbody>
</table>

### See Also

- `CommandLine Class`

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CommandLineExecute Method

Executes the build operation.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
CommandLine Class
MSBuild.ExtensionPack.Framework Namespace

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<td>Gets or sets the StdOut stream encoding. Specifies the encoding of the captured task standard output stream. The default is the current console output encoding.</td>
</tr>
<tr>
<td>SuccessExitCode</td>
<td>Gets or sets the success exit code for the command.</td>
</tr>
<tr>
<td>WorkingDirectory</td>
<td>Default is zero (0).</td>
</tr>
</tbody>
</table>

**See Also**

Reference

CommandLine Class

MSBuild.ExtensionPack.Framework Namespace

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**SqlCommandProperty**

Gets or sets the command(s) to run. These can be system commands, such as `attrib`, or an executable, such as `program.exe`, `runprogram.bat`, or `setup.msi`. This parameter can contain multiple lines of commands (each command on a new-line). Alternatively, you can place multiple commands in a batch file and run it using this parameter.

**Namespace**: MSBuild.ExtensionPack.Framework  
**Assembly**: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version**: 4.0.0.0

**Remarks**

Exec Equivalent: Command

**See Also**

Reference  
SqlCommand Class  
MSBuild.ExtensionPack.Framework Namespace

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**CommandLineCustomErrorRegularExpression Property**

Gets or sets the error regular expression. Leaving this unset will result in no output errors.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

Exec Equivalent: CustomErrorRegularExpression  
The regular expression object has no options set: RegexOptions.None. This can be changed in the provided expression by using the regular expression options group syntax. For information on .NET Regular Expressions: http://msdn.microsoft.com/en-us/library/hs600312%28VS.71%29.aspx  
Capturing groups can be defined for the following values:

- **SubCategory** - A description of the error type
- **ErrorCode** - The error code
- **HelpKeyword** - Help keyword for the error
- **File** - Path to the file
- **Line** - The line where the error begins
- **Column** - The column where the error begins
- **EndLine** - The end line where the error ends
- **EndColumn** - The end column where the error ends
- **Message** - The error message  
These values are used to integrate into MSBuild and the IDE.

Examples:
- **NMake errors:** NMAKE: Nxxx: {error message}  
  NMAKE: FXCOPxx: {error message}  
  RegEx for matching NMake errors: ^NMAKE\s+\s+\s+(fatal|error)\s+(.*$)
  File specific NMake or CS errors: filename(line): fatal error Uxxxx: {error message}  
  RegEx for matching file specific NMake or CS errors: ^(?<File>[^\(]+\)(?<Line>[^\d+],(?<Column>[^\d+])?\d*\s+)?\s+(fatal|error)\s+(.*$)
  CS reference errors: filename: error CSxxxx: {error message}  
  RegEx for matching CS reference errors: ^(?<File>[^.]*)\d*:\s+error\s+(.*$)

**See Also**

Reference
CommandLine
CustomWarningRegularExpression
Property

Gets or sets the warning regular expression. Leaving this unset will result in no output warnings.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

Exec Equivalent: CustomWarningRegularExpression  
See CustomErrorRegularExpression for information on regular expression matching groups and examples.

**See Also**

Reference

CommandLine Class  
MSBuild.ExtensionPack.Framework Namespace

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Remarks

Exec Equivalent: ExitCode

See Also

Reference

CommandLine Class
MSBuild.ExtensionPack.Framework Namespace
Remarks
See Also

**CommandLineIgnoreExitCode**  MSBuild Extension Pack Help  4.0.12.0

Gets or sets a value indicating whether to ignore the command exit code. If true, the task ignores the exit code provided by the executed command. Otherwise, the task returns false if the executed command returns an exit code that does not match **SuccessExitCode**.

**Namespace:** MSBuild.ExtensionPack.Framework
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  Version: 4.0.0.0

**Remarks**
Exec Equivalent: IgnoreExitCode

**See Also**
Reference
(CommandLine Class
MSBuild.ExtensionPack.Framework Namespace

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Remarks
See Also

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Remarks

Exec Equivalent: Outputs

See Also

Reference

CommandLine Class
MSBuild.ExtensionPack.Framework Namespace

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**CommandLineStdErrEncoding Property**

Gets or sets the StdErr stream encoding. Specifies the encoding of the captured task standard error stream. The default is the current console output encoding.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

Exec Equivalent: StdErrEncoding

**See Also**

Reference
- CommandLine Class

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**CommandLineStdOutEncoding Property**

Gets or sets the StdOut stream encoding. Specifies the encoding of the captured task standard output stream. The default is the current console output encoding.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

Exec Equivalent: StdOutEncoding

**See Also**

Reference  
**CommandLine Class**  
**MSBuild.ExtensionPack.Framework Namespace**

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**CommandLineSuccessExitCode Property**

Gets or sets the success exit code for the command. Default is zero (0).

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

No Exec Equivalent

**See Also**

Reference  
CommandLine Class  
MSBuild.ExtensionPack.Framework Namespace

---

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**CommandLineWorkingDirectory Property**

Gets or sets the directory in which the command will run.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

Exec Equivalent: WorkingDirectory

**See Also**

Reference

CommandLine Class  
MSBuild.ExtensionPack.Framework Namespace

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ConfigManager Class

Task used to work with the .NET framework web.config and machine config files. **Valid TaskActions are:**

*ProtectConfigSection* (**Required:** Section **Optional:** Site, Path, ConfigurationFileType, ProtectionProvider, SaveMode)

*RemoveAppSetting* (**Required:** SettingName **Optional:** Site, Path, ConfigurationFileType, SaveMode)

*RemoveConnectionString* (**Required:** SettingName **Optional:** Site, Path, ConfigurationFileType, SaveMode)

*SetAppSetting* (**Required:** SettingName **Optional:** Site, Path, SettingValue, ConfigurationFileType, SaveMode)

*SetConnectionString* (**Required:** SettingName **Optional:** Site, Path, SettingValue, ConfigurationFileType, SaveMode)

*UnprotectConfigSection* (**Required:** Section **Optional:** Site, Path, ConfigurationFileType, SaveMode)

Inheritance Hierarchy

*SystemObject*  
Microsoft.Build.UtilitiesTask  
MSBuild.ExtensionPackBaseTask  
MSBuild.ExtensionPack.Framework

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The **ConfigManager** type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>ConfigManager</code></td>
<td></td>
</tr>
</tbody>
</table>

Top

Properties
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ConfigurationFileType</td>
<td>Which .NET framework configuration file to update. Supports WebConfig and</td>
</tr>
<tr>
<td></td>
<td>MachineConfig. Default is MachineConfig</td>
</tr>
<tr>
<td>Path</td>
<td>Sets the Path to work on. Leave blank to target the .net framework web.config</td>
</tr>
<tr>
<td>ProtectionProvider</td>
<td>The encryption provider. Supports RSAProtectedConfigurationProvider and</td>
</tr>
<tr>
<td></td>
<td>DataProtectionConfigurationProvider. Default is RSAProtectedConfigurationProvider</td>
</tr>
<tr>
<td>SaveMode</td>
<td>How should changes to the config file be saved? See</td>
</tr>
<tr>
<td>Section</td>
<td>The config section to protect or unprotect</td>
</tr>
<tr>
<td>SettingName</td>
<td>The setting name to update.</td>
</tr>
<tr>
<td>SettingValue</td>
<td>The setting's value.</td>
</tr>
<tr>
<td>Site</td>
<td>Sets the Site to work on. Leave blank to target the .net framework web.config</td>
</tr>
</tbody>
</table>

**Top**

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild\Common\MSBuild.ExtensionPack.tasks</TPath>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <ItemGroup>
      <MachineConfigSettings Include="settingName"/>
      <Value>settingValue</Value>
    </MachineConfigSettings>
  </ItemGroup>
  <!-- Update machine.config app settings -->
  <MSBuild.ExtensionPack.Framework.ConfigManager>...
</Project>
```
<ConnectionStrings Include="myAppDB">
    <Value>Server=MyServer;</Value>
</ConnectionStrings>
</ItemGroup>
<!-- Update a website's connection strings -->
<!-- Encrypt a website's connection strings -->
<!-- Un-encrypt a website's connection string -->
<!---- Remove a setting from a website -->
<!-- Remove connection string 'obsoleteConnection' from machine.config file -->
</Target>
</Project>

See Also

Reference
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**ConfigManager Constructor**

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.12.0

**See Also**

Reference
- ConfigManager Class

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The `ConfigManager` type exposes the following members.

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ConfigurationFileType</td>
<td>Which .NET framework configuration file to update. Supports WebConfig and MachineConfig. Default is MachineConfig</td>
</tr>
<tr>
<td>Path</td>
<td>Sets the Path to work on. Leave blank to target the .net framework web.config</td>
</tr>
<tr>
<td>ProtectionProvider</td>
<td>The encryption provider. Supports RSAProtectedConfigurationProvider and DataProtectionConfigurationProvider. Default is RSAProtectedConfigurationProvider</td>
</tr>
<tr>
<td>SaveMode</td>
<td>How should changes to the config file be saved? See <a href="http://msdn.microsoft.com/en-us/library/system.configuration.configurationsavemode.aspx">http://msdn.microsoft.com/en-us/library/system.configuration.configurationsavemode.aspx</a> for the list of values. Default is Minimal</td>
</tr>
<tr>
<td>Section</td>
<td>The config section to protect or unprotect</td>
</tr>
<tr>
<td>SettingName</td>
<td>The setting name to update.</td>
</tr>
<tr>
<td>SettingValue</td>
<td>The setting's value.</td>
</tr>
<tr>
<td>Site</td>
<td>Sets the Site to work on. Leave blank to target the .net framework web.config</td>
</tr>
</tbody>
</table>

**See Also**

Reference

`ConfigManager Class`

`MSBuild.ExtensionPack.Framework Namespace`

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Send comments on this topic to MSBuild ExtensionPack Feedback
ConfigManager.ConfigurationFileType

Property


Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

ConfigManager Class
MSBuild.ExtensionPack.Framework Namespace

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**ConfigManagerPath**

**Property**

Sets the Path to work on. Leave blank to target the .net framework web.config

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

**Reference**

ConfigManager Class
MSBuild.ExtensionPack.Framework Namespace

---

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ConfigManagerProtectionProvider MSBuild Extension Pack Help 4.0.12.0

Property

The encryption provider. Supports RSAProtectedConfigurationProvider and DataProtectionConfigurationProvider. Default is RSAProtectedConfigurationProvider

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

ConfigManager Class
MSBuild.ExtensionPack.Framework Namespace

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ConfigManagerSaveMode Property

How should changes to the config file be saved? See http://msdn.microsoft.com/en-us/library/system.configuration.configurationsavemode.aspx for the list of values. Default is Minimal

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
ConfigManager Class
MSBuild.ExtensionPack.Framework Namespace

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**ConfigManagerSection Property**

The config section to protect or unprotect

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference
- ConfigManager Class

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See Also

Reference

ConfigManager Class
MSBuild.ExtensionPack.Framework Namespace

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ConfigManagerSettingValue Property

The setting's value.

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  Version: 4.0.0.0

---

**See Also**

Reference

ConfigManager Class
MSBuild.ExtensionPack.Framework Namespace

---

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ConfigManagerSite Property

Sets the Site to work on. Leave blank to target the .net framework web.config

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
ConfigManager Class
MSBuild.ExtensionPack.Framework Namespace

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**DateAndTime Class**  
MSBuild Extension Pack Help 4.0.12.0

Valid TaskActions are:

*AddDays* (**Required:** Format, **Value** **Optional:** Start **Output:** Result)

*AddHours* (**Required:** Format, **Value** **Optional:** Start **Output:** Result)

*AddMilliseconds* (**Required:** Format, **Value** **Optional:** Start **Output:** Result)

*AddMinutes* (**Required:** Format, **Value** **Optional:** Start **Output:** Result)

*AddMonths* (**Required:** Format, **Value** **Optional:** Start **Output:** Result)

*AddSeconds* (**Required:** Format, **Value** **Optional:** Start **Output:** Result)

*AddTicks* (**Required:** Format, **Value** **Optional:** Start **Output:** Result)

*AddYears* (**Required:** Format, **Value** **Optional:** Start **Output:** Result)

*CheckBetween* (**Required:** Start, **End** **Optional:** UseUtc **Output:** BoolResult)

*CheckLater* (**Required:** Start **Optional:** UseUtc **Output:** BoolResult)

*Get* (**Required:** Format **Optional:** UseUtc **Output:** Result)

*GetElapsed* (**Required:** Format, **Start** **Optional:** End, **UseUtc** **Output:** Result)

Remote Execution Support: NA

**Inheritance Hierarchy**

*SystemObject*  Microsoft.Build.UtilitiesTask  
    MSBuild.ExtensionPackBaseTask  
        MSBuild.ExtensionPack.FrameworkDateAndTime

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The **DateAndTime** type exposes the following members.
### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BoolResult</td>
<td>The output boolean result.</td>
</tr>
<tr>
<td>End</td>
<td>The end time to use for GetElapsed. Default is DateTime.Now</td>
</tr>
<tr>
<td>Format</td>
<td>Format to apply to the Result. For GetTime, Format can be any valid DateTime format. For GetElapsed, Format can be Milliseconds, Seconds, Minutes, Hours, Days or Total. Total returns dd:hh:mm:ss</td>
</tr>
<tr>
<td>Result</td>
<td>The output Result</td>
</tr>
<tr>
<td>Start</td>
<td>The start time to use</td>
</tr>
<tr>
<td>UseUtc</td>
<td>Set to true to use UTC Date / Time for the TaskAction. Default is false.</td>
</tr>
<tr>
<td>Value</td>
<td>Specifies the value to operate with</td>
</tr>
</tbody>
</table>

### Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"
 <PropertyGroup>
   <TPath>$(MSBuildProjectDirectory)\.\..\MSBuild
   <TPath Condition="Exists($(MSBuildProjectDirectory)\Common\MSBuild.ExtensionPack.tasks)"
 </PropertyGroup>
 <Import Project="$(TPath)"/>
 <PropertyGroup>
   <Start>1 Jan 2009</Start>
 </PropertyGroup>
 <Target Name="Default">
   <!-- Let's Time how long it takes to perform
   <MSBuild.ExtensionPack.Framework.DateAndTime
   <Output TaskParameter="Result" PropertyName="Result"/>
   </MSBuild.ExtensionPack.Framework.DateAndTime
   <Message Text="I'm sleeping..."/>
   <Message Text="Sleep Over!"/>
```
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Output TaskParameter="Result" PropertyName="Result"
  </MSBuild.ExtensionPack.Framework.DateAndTime>
<Message Text="Slept For: $(DTResult)"/>
<!-- Get the elapsed days since the start date -->
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Output TaskParameter="Result" PropertyName="Result"
  </MSBuild.ExtensionPack.Framework.DateAndTime>
<Message Text="Days Since $(Start): $(DTResult)"
<!-- Get the elapsed minutes since the start date -->
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Output TaskParameter="Result" PropertyName="Result"
  </MSBuild.ExtensionPack.Framework.DateAndTime>
<Message Text="Minutes Since $(Start): $(DTResult)"
<!-- Get the elapsed hours since the start date -->
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Output TaskParameter="Result" PropertyName="Result"
  </MSBuild.ExtensionPack.Framework.DateAndTime>
<Message Text="Hours Since $(Start): $(DTResult)"
<!-- Get the total elapsed time since the start date -->
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Output TaskParameter="Result" PropertyName="Result"
  </MSBuild.ExtensionPack.Framework.DateAndTime>
<Message Text="Total Elapsed Time Since $(Start): $(DTResult)"
<!-- Get the time in the specified format -->
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Output TaskParameter="Result" PropertyName="Result"
  </MSBuild.ExtensionPack.Framework.DateAndTime>
<Message Text="Date / Time: $(DTResult)"
<!-- Get the UTC time in the specified format -->
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Output TaskParameter="Result" PropertyName="Result"
  </MSBuild.ExtensionPack.Framework.DateAndTime>
<Message Text="UTC Date / Time: $(DTResult)"
<!-- Check if it's later than a given time -->
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Output TaskParameter="BoolResult" PropertyName="Result"
  </MSBuild.ExtensionPack.Framework.DateAndTime>
<Message Text="Later: $(DTResult)"/>
<!-- Check if the current time is between two times -->
<MSBuild.ExtensionPack.Framework.DateAndTime
    <Output TaskParameter="BoolResult" PropertyName="DTResult" />
    <Message Text="Between: $(DTResult)" />
</MSBuild.ExtensionPack.Framework.DateAndTime>

<!-- Test Add time targets based on start times -->
<MSBuild.ExtensionPack.Framework.DateAndTime
    <Output TaskParameter="Result" PropertyName="Result" />
    <Message Text="Add Time To: $(AddTimeStart)" />
</MSBuild.ExtensionPack.Framework.DateAndTime>

<!-- Add days -->
<MSBuild.ExtensionPack.Framework.DateAndTime
    <Output TaskParameter="Result" PropertyName="Result" />
    <Message Text="Add 30 days: $(DTResult)" />
</MSBuild.ExtensionPack.Framework.DateAndTime>

<!-- Verify add days -->
<MSBuild.ExtensionPack.Framework.DateAndTime
    <Output TaskParameter="Result" PropertyName="Result" />
    <Message Text="Days Since $(Start): $(DTResult)" />
</MSBuild.ExtensionPack.Framework.DateAndTime>

<!-- Add hours -->
<MSBuild.ExtensionPack.Framework.DateAndTime
    <Output TaskParameter="Result" PropertyName="Result" />
    <Message Text="30 hours from time: $(DTResult)" />
</MSBuild.ExtensionPack.Framework.DateAndTime>

<!-- Verify add hours -->
<MSBuild.ExtensionPack.Framework.DateAndTime
    <Output TaskParameter="Result" PropertyName="Result" />
    <Message Text="Hours Since $(Start): $(DTResult)" />
</MSBuild.ExtensionPack.Framework.DateAndTime>

<!-- Add milliseconds -->
<MSBuild.ExtensionPack.Framework.DateAndTime
    <Output TaskParameter="Result" PropertyName="Result" />
    <Message Text="3000 Millisecond from time: $(DTResult)" />
</MSBuild.ExtensionPack.Framework.DateAndTime>

<!-- Verify add milliseconds -->
<MSBuild.ExtensionPack.Framework.DateAndTime
    <Output TaskParameter="Result" PropertyName="Result" />
</MSBuild.ExtensionPack.Framework.DateAndTime>
<Message Text="Milliseconds Since $(Start)">
<!-- Add minutes -->
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Output TaskParameter="Result" PropertyName="Result">
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Message Text="30 minutes from time: $(DTResult)">
<!-- Verify add minutes -->
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Output TaskParameter="Result" PropertyName="Result">
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Message Text="Minutes Since $(Start): $(DTResult)">
<!-- Add months -->
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Output TaskParameter="Result" PropertyName="Result">
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Message Text="30 months from time: $(DTResult)">
<!-- Verify add months -->
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Output TaskParameter="Result" PropertyName="Result">
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Message Text="30 Seconds from time: $(DTResult)">
<!-- Verify add seconds -->
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Output TaskParameter="Result" PropertyName="Result">
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Message Text="Seconds Since $(Start): $(DTResult)">
<!-- Add ticks -->
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Output TaskParameter="Result" PropertyName="Result">
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Message Text="3000 ticks from time: $(DTResult)">
<!-- Add years -->
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Output TaskParameter="Result" PropertyName="Result">
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Message Text="30 Years from time: $(DTResult)">
<!-- Test Add time targets based current time -->
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Output TaskParameter="Result" PropertyName="Result">
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Message Text="30 Days from time: $(DTResult)">
<!-- Add days -->
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Output TaskParameter="Result" PropertyName="Result">
<MSBuild.ExtensionPack.Framework.DateAndTime
  <Message Text="30 Days from time: $(DTResult)"/>
<Output TaskParameter="Result" PropertyName="Result" />
<MSBuild.ExtensionPack.Framework.DateAndTime />
<Message Text="30 days from time: $(DTResult)" />
<!-- Add hours -->
<MSBuild.ExtensionPack.Framework.DateAndTime />
<Message Text="30 hours from time: $(DTResult)" />
<!-- Add milliseconds -->
<MSBuild.ExtensionPack.Framework.DateAndTime />
<Message Text="3000 Millisecond from time: $(DTResult)" />
<!-- Add minutes -->
<MSBuild.ExtensionPack.Framework.DateAndTime />
<Message Text="30 minutes from time: $(DTResult)" />
<!-- Add months -->
<MSBuild.ExtensionPack.Framework.DateAndTime />
<Message Text="30 months from time: $(DTResult)" />
<!-- Add seconds -->
<MSBuild.ExtensionPack.Framework.DateAndTime />
<Message Text="30 Seconds from time: $(DTResult)" />
<!-- Add ticks -->
<MSBuild.ExtensionPack.Framework.DateAndTime />
<Message Text="3000 ticks from time: $(DTResult)" />
<!-- Add years -->
<MSBuild.ExtensionPack.Framework.DateAndTime />
<Message Text="30 Years from time: $(DTResult)" />
</Project>

See Also

Reference

MSBuild.ExtensionPack.Framework Namespace

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**DateAndTime Constructor**

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**
- **Reference**
  - DateAndTime Class  

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The **DateAndTime** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BoolResult</td>
<td>The output boolean result.</td>
</tr>
<tr>
<td>End</td>
<td>The end time to use for GetElapsed. Default is DateTime.Now</td>
</tr>
<tr>
<td>Format</td>
<td>Format to apply to the Result. For GetTime, Format can be any valid DateTime format. For GetElapsed, Format can be Milliseconds, Seconds, Minutes, Hours, Days or Total. Total returns dd:hh:mm:ss</td>
</tr>
<tr>
<td>Result</td>
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</tr>
<tr>
<td>Start</td>
<td>The start time to use</td>
</tr>
<tr>
<td>UseUtc</td>
<td>Set to true to use UTC Date / Time for the TaskAction. Default is false.</td>
</tr>
<tr>
<td>Value</td>
<td>Specifies the value to operate with</td>
</tr>
</tbody>
</table>

## See Also

**Reference**

- **DateAndTime Class**
- **MSBuild.ExtensionPack.Framework Namespace**

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**DateAndTimeBoolResult**

Property

The output boolean result.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

DateAndTime Class  
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**DateAndTimeEnd Property**

The end time to use for GetElapsed. Default is DateTime.Now

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

*Reference*

DateAndTime Class  
MSBuild.ExtensionPack.Framework Namespace

---

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**DateAndTimeFormat**

**Property**

Format to apply to the Result. For GetTime, Format can be any valid DateTime format. For GetElapsed, Format can be Milliseconds, Seconds, Minutes, Hours, Days or Total. Total returns dd:hh:mm:ss

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

- DateAndTime Class

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**DateAndTimeResult Property**

The output Result

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

**See Also**

**Reference**  
DateAndTime Class  
MSBuild.ExtensionPack.Framework Namespace

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**DateAndTimeStart Property**

The start time to use

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**

- DateAndTime Class

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See Also

MSBuild.ExtensionPack.Help

Set to true to use UTC Date / Time for the TaskAction. Default is false.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

DateAndTime Class
MSBuild.ExtensionPack.Framework Namespace

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DateAndTimeValue Property

Specifies the value to operate with

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

DateAndTime Class
MSBuild.ExtensionPack.Framework Namespace
DotNetConfigurationFile Enumeration

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MachineConfig</td>
<td>0</td>
<td>Update the machine.config.</td>
</tr>
<tr>
<td>WebConfig</td>
<td>1</td>
<td>Update the web.config in the framework config directory</td>
</tr>
</tbody>
</table>

See Also

Reference

MSBuild.ExtensionPack.Framework Namespace

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**DynamicExecute Class**

**Valid TaskActions are:**

*Define* (Required: Code Optional: Inputs, Outputs, References, UsingNamespaces, NoDefaultParameters, NoDefaultReferences, NoDefaultUsingNamespaces **Output**: OutputMethodId). Defines and compiles a new method, which can then be used to create a closure.

*Create* (Required: MethodId **Output**: OutputClosureId). Creates a new closure. All input and output arguments for this closure are set to their default values.

*SetInput* (Required: ClosureId, Name, InputValue). Sets an argument value for a closure.

*Invoke* (Required: ClosureId). Invokes a closure.

*GetOutput* (Required: ClosureId, Name **Output**: OutputValue). Retrieves a result value (output parameter value) from a closure.

*Destroy* (Required: ClosureId). Disposes of a closure. The closure ID is no longer valid after this task action.

*Call* (Required: MethodId Optional: Input1, Input2, Input3 **Output**: Output1, Output2, Output3). Calls a method with up to three inputs, returning up to three outputs. Internally, creates a closure, sets the input parameters, invokes it, retrieves the output parameters, and destroys it.

*Run* (Required: Code Optional: Inputs, Outputs, References, UsingNamespaces, NoDefaultParameters, NoDefaultReferences, NoDefaultUsingNamespaces, Input1, Input2, Input3 **Output**: Output1, Output2, Output3, OutputMethodId). Defines a method and runs it. The task outputs include the outputs from the method as well as the method identifier.

**Remote Execution Support:** None.

**Inheritance Hierarchy**

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The **DynamicExecute** type exposes the following members.

## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DynamicExecute</td>
<td></td>
</tr>
</tbody>
</table>

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ClosureId</td>
<td>The identifier of the closure instance.</td>
</tr>
<tr>
<td>Code</td>
<td>The actual method code for dynamic execution.</td>
</tr>
<tr>
<td>Input1</td>
<td>The value for the first input parameter.</td>
</tr>
<tr>
<td>Input2</td>
<td>The value for the second input parameter.</td>
</tr>
<tr>
<td>Input3</td>
<td>The value for the third input parameter.</td>
</tr>
<tr>
<td>Inputs</td>
<td>Specifies the inputs for <code>Code</code>. Each input has a type and a name.</td>
</tr>
<tr>
<td>InputValue</td>
<td>The value to set.</td>
</tr>
<tr>
<td>MethodId</td>
<td>The identifier of the method definition.</td>
</tr>
<tr>
<td>Name</td>
<td>The name of the input argument to set, or the output argument to retrieve.</td>
</tr>
<tr>
<td>NoDefaultParameters</td>
<td>Specifies to not define the default parameters for <code>Code</code>.</td>
</tr>
<tr>
<td>NoDefaultReferences</td>
<td>Specifies to not include the default references for <code>Code</code>.</td>
</tr>
<tr>
<td>NoDefaultUsingNamespaces</td>
<td>Specifies to not include the default &quot;using namespaces&quot; for <code>Code</code>.</td>
</tr>
<tr>
<td>Output1</td>
<td>The value of the first closure output.</td>
</tr>
<tr>
<td>Output2</td>
<td>The value of the second closure output.</td>
</tr>
<tr>
<td>Output3</td>
<td>The value of the third closure output.</td>
</tr>
<tr>
<td>OutputClosureId</td>
<td>The ID of a closure instance.</td>
</tr>
</tbody>
</table>
Remarks

The **DynamicExecute** task allows defining and executing code at build time. The code is not interpreted; rather, it is compiled and then loaded into the MSBuild process.

Currently, the only supported language is C#.

**Code, Methods, and Closures**

"Code" is the actual source code to be executed. Code may be executed directly by the **Run** task action, or code may be used to define a method by the **Define** task action.

A "method" is a piece of defined code. Methods are compiled and loaded into the MSBuild process dynamically. A method may be executed by the **Call** task action, or used to create a closure by the **Create** task action.

A "closure" is a reference to a method along with values for all the method's input and output parameters.

**Using Closures**

A closure contains values for all inputs and outputs of a particular method. Generally, a closure is created, its input values are set, it is invoked, its output values are retrieved, and finally the closure is destroyed.

When a closure is created, all input and output values are set to their default values. It is possible to call a method without specifying input values; in this case, the default values are used. It is also possible to re-use a closure instead of destroying it; however, this may cause confusion since the output values are not reset before invoking the method again.
Most of the time, the Call or Run task actions are used. These create a closure to do their work, destroying it when they are done. These task actions are much more compact than using the closure-based task actions such as SetInput and GetOutput.

However, Call and Run do have limitations. Closures allow any number of input and output values, instead of just three. Also, input and output values are set and retrieved by name when using closures directly; Run and Call can only set and retrieve by position.

**Code Context**

The actual code is compiled into a static method of a class. Enclosing Code in curly braces is not necessary.

There are three types of parameters passed to the method: default parameters, input parameters, and output parameters.

Currently, there is only one default parameter, named "@this". Its type is Microsoft.Build.Utilities.Task, and it may be used to access task-level properties such as Log and BuildEngine2. Default parameters may be disabled by specifying NoDefaultParameters.

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"
  xmlns:MSBuild="http://microsoft.com/msbuild">
  <Import Project="$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks" />
  <Target Name="Default">
    <!-- A very simple example, showing the default parameter -->
    <!-- Output: Hi! -->
  </Target>
</Project>
```

Input parameters are strongly-typed, as defined by Inputs.

Output parameters are likewise strongly-typed, as defined by Outputs. They
are compiled as `ref` parameters, so all method outputs are optional by definition.

The compiled method returns `void`, so code containing a simple `return` will compile, but any code attempting to return a value will not. All method outputs must be assigned to an output parameter before returning.

Assembly references and using namespaces may be augmented or replaced; see **Advanced Code Options** below for more details.

### Specifying Inputs and Outputs

Each input or output has a type and a name. The name must be a legal C# parameter name, and cannot start with "_" or be equal to "@this". Input and output names must be unique; an input cannot have the same name as an output.

If `NoDefaultParameters` is specified, then input and output names may start with "_" or be equal to "@this".

Type and name pairs may be specified one of three ways. The first (and most compact) way is to pass a comma-delimited string of type and name pairs. This is the most familiar syntax to C#.

The second way is to pass an array of task items, with the identity of each item set to its type and name separated by at least one space.

The third way is to pass an array of task items, with the type looked up from the item's "Type" metadata. The name may be specified by the item's "Name" metadata or its identity.

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\.\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\.\Common\MSBuild.ExtensionPack.tasks')"></TPath>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- These are equivalent -->
    <MSBuild.ExtensionPack.Framework.DynamicExec...
```
<Output TaskParameter="Output1" Property
<Message Text="Formatted date: $(FormattedDate"
<ItemGroup>
  <FormatInputs Include="string format"/>
  <FormatOutputs Include="result">
    <Type>string</Type>
  </FormatOutputs>
</ItemGroup>
</Target>
</Project>

**Supported Input and Output Types**

Input and output types must be one of the following:

**Group A** - *ITaskItem[]* or *ITaskItem*. This is the MSBuild task item group / task item, which may be used to access metadata.

**Group B** - The CLR types convertible to and from *string*. This includes the types *string, char, bool, byte, sbyte, short, ushort, int, uint, long, ulong, float, double, Decimal*, and *DateTime*.

**Group C** - Any nullable type whose underlying type is in Group B. This includes the types *char?, bool?, byte?, sbyte?, short?, ushort?, int?, uint?, long?, ulong?, float?, double?, Decimal?, and DateTime?*.

**Group D** - An array of any type from Group B. Each element of the array must contain a value; it is not valid to pass or return arrays if one of the
elements in the array is null.

Invalid input and output types are not detected at compile time. They are only detected if a value fails to convert to or from the specified type.

**Conversion of Input Parameters**

An input argument value passes through two conversions. The first is the default MSBuild conversion, and the second is performed by the `SetInput`, `Call`, or `Run` task action.

The MSBuild conversion always converts to `ITaskItem[]`, because this is the type of the `InputValue`, `Input1`, `Input2`, and `Input3` properties.

Once the input value has been converted to an array of task items, the `DynamicExecute` task action performs a second conversion. This is designed to work similarly to the MSBuild conversions and default C# conversions to prevent unexpected behavior. The exact steps taken are dependent on the group the input type belongs to; see *Supported Types* above for more information about the type grouping.

**Group A** - No actual conversion is performed. If the method expects a single `ITaskItem`, then the task action ensures that the input value contains only a single task item.

**Groups B and C** - The task ensures that the input value contains only a single task item. Then, the task item's `ItemSpec` is used as a string value, and this string is converted to the expected type.

**Group D** - Each task item's `ItemSpec` is used as a string value, and this string is converted to the expected type. The result is an array with the same number of elements as the array of task items.

If an input argument value is null, then no conversions are performed; the method is passed a null value.

Special conversions exist if the input parameter is of `bool` type. Valid values include "true", "false", "yes", "no", "on", and "off", all case-insensitive. In addition, these values may be prefixed with the logical "not" operator ("!"). These conversions are supported because they are MSBuild conventions.

**Conversion of Strings**

String input parameters may cause problems if the argument value contains
semicolons. In this case, the default MSBuild conversion will split the string into an array of **ITaskItem**, using the semicolons as separators.

To prevent this behavior, one may first escape the string by using the **TextStringReplace** task action, as this example illustrates:

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\..\Common\MSBuild.ExtensionPack.tasks')"/>
    <Import Project="$(TPath)"/>
    <Target Name="Default">
      <PropertyGroup>
        <String>This semicolon does not separate</String>
      </PropertyGroup>
      <!-- Semicolons normally act as item separators; to prevent this treatment, escape them first -->
      <MSBuild.ExtensionPack.Framework.TextString OldString="This\;semicolon\;does\;not\;separate;items" NewValue="This\;semicolon\;does\;not\;separate"/>

      <!-- $(String) would be treated as a vector argument (2 elements), but $(EscapedString) is a scalar argument -->

      <!-- Converting the result to an item group shows that the semicolon is still not used as a separator -->
      <ItemGroup>
        <!-- Only one item will exist in this item group -->
        <ResultItemGroup Include="$(Result)"/>
      </ItemGroup>
      <!-- Result: This semicolon does not separate items; it is used in a grammatical sense. -->
    </Target>
  </PropertyGroup>
</Project>
```
Conversion of Output Parameters

An output argument value passes through two conversions. The first is performed by the GetOutput, Call, or Run task action. The second is the default MSBuild conversion.

The DynamicExecute task action performs the first conversion. This is always a conversion to ITaskItem[], because that is the type of the OutputValue, Output1, Output2, and Output3 properties.

This conversion is designed to work similarly to the MSBuild conversions and default C# conversions to prevent unexpected behavior. The exact steps taken are dependent on the group the output type belongs to; see Supported Types above for more information about the type grouping.

**Group A** - The actual objects returned must be of type TaskItem or TaskItem[] (returning an instance of another type implementing ITaskItem is not supported). No actual conversion is performed. If the method produces a single TaskItem, then the task action creates an array of task items containing only the single element.

**Groups B and C** - An array of task items is returned containing a single element. The ItemSpec of that single element is the output value converted to a string. Note that null values are treated specially (see below).

**Group D** - An array of task items is returned, with the same number of items as the output array. For each corresponding array item, the ItemSpec of the task item array element is set to the string representation of the output array element.

If an output argument value is null, then no conversions are performed by the task action. MSBuild will convert a null value to an empty string or empty item group if necessary.

The default MSBuild conversion will convert from ITaskItem[] to an item group or string as necessary.

**Advanced Code Options**
When a method is compiled, it is given some assembly references by default. See References for a list of the default references. Specify NoDefaultReferences to prevent default references from being used.

The method is also given some using namespace declarations by default. See UsingNamespaces for a list of the default "using namespaces". Specify NoDefaultUsingNamespaces to prevent default "using namespaces" from being used.

Finally, the method is given some default parameters. Currently, the only default parameter is "@this", but all parameter names beginning with an underscore ("_") are reserved for future default parameters. Specify NoDefaultParameters to prevent default parameters from being used.

**Limitations**

One defined method may not call another defined method.

There is no facility for a method storing data in a way that it could be retrieved by a future call of the method (or another method). A workaround is to convert any such data to a string representation and pass that as an input and / or output parameter.

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
    <PropertyGroup>
        <TPath>$(MSBuildProjectDirectory)\.\..\MSBuild.ExtensionPack.tasks</TPath>
        <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\.Common\MSBuild.ExtensionPack.tasks')" />
    </PropertyGroup>
    <Import Project="$(TPath)" />
    <Target Name="Default">
        <!-- A very simple example, using a default parameter -->
        <!-- Output: Hi! -->

        <!-- An example that takes a string argument -->
    </Target>
</Project>
```
<-- Output (varies by time): 2009-06-10 -->
<Message Text="Formatted date: $(FormattedDate)"
<-- An example that shows the more advanced

<-- Output: Converts '!no' to: True -->
<Message Text="Converts '!no' to: $(ConversionTestResult)"
<-- Take two array arguments and return an

<-- Output: Array test result: 110;210;310
<Message Text="Array test result: $(ArrayTestResult)"
<-- Take two array arguments of non-string
<Output TaskParameter="Output1" Property
<!-- Output: Array test result: 11;12;13 --
<Message Text="Array test result: $(ArrayTes
<!-- A much more complex example: defining a
<PropertyGroup
</CrossProductCode

```csharp
&amp;lt;![CDATA[
    if (string.IsNullOrEmpty(separator))
        separator = ";"
    result = new TaskItem[itemGroup1.Length * itemGroup2.Length];
    int i = 0;
    foreach (ITaskItem item1 in item1
        {foreach (ITaskItem item2 in item2
            {
                // Determine metadata
                Dictionary&lt;string, string
                // Copy all metadata from
                if (string.IsNullOrEmpty
                    {
                        foreach (string name
                            metadata.Add(nam
                    }else
                    {
                        foreach (string name
                            metadata.Add(prefix2
                    }else
                // Copy all metadata from
                if (string.IsNullOrEmpty
                    {
                        foreach (string name
                            metadata.Add(name
                    }else
                // Copy all metadata from
                if (string.IsNullOrEmpty
                    {
                        foreach (string name
                            metadata.Add(name
                    }else
                // Copy all metadata from
                if (string.IsNullOrEmpty
                    {
                        foreach (string name
                            if (!metadata.Contains
                                metadata.Add(name
                            }else
                        {
                            foreach (string name
                                metadata.Add(prefix1
                    }

```
if (!metadata.ContainsKey(prefix2 + name))
    
} // Create an output item
result[i++] = new TaskItem(item1.ItemSpec + separator + item2.ItemSpec, metadata);

</ItemGroup>
</PropertyGroup>
<ItemGroup>
    <!-- Parameters and results: these are used in the method definition-->
    <CrossProductParameters Include="itemGroup1;itemGroup2">
        <Type>ITaskItem[]</Type>
    </CrossProductParameters>
    <CrossProductParameters Include="separator;prefix1;prefix2">
        <Type>string</Type>
    </CrossProductParameters>
    <CrossProductResults Include="result">
        <Type>ITaskItem[]</Type>
    </CrossProductResults>
    <!-- Arguments: these are used by the closure-->
    <CrossProductArguments1 Include="x;y;z">
        <M1>Meta1</M1>
    </CrossProductArguments1>
    <CrossProductArguments2 Include="1;2">
        <M2>Meta2</M2>
    </CrossProductArguments2>
    <CrossProductArguments2 Include="3">
        <M1>Meta1 that is overwritten</M1>
        <M2>A different Meta2</M2>
    </CrossProductArguments2>
<-- Output: Cross product: x;1 { M1=Meta1,
<Message Text="Cross product: @(CrossProduct
<-- The "Run" and "Call" TaskActions are li
any number of inputs and outputs may


<Output TaskParameter="OutputClosureId"


<Output TaskParameter="OutputValue" Item />
<!-- Output: Cross product with more parameters: x.1 {P1_M1=Meta1, P2_M1=, P2_M2=Meta2}; x.2 {P1_M1=... P2_M1=, P2_M2=Meta2}; z.3 {P1_M1=Meta1, P2_M1=Meta1 that is overwritten, P2_M2=A different Meta2} -->
<Message Text="Cross product with more parameters: @(ComplexCrossProductResult->"%(Identity) {P1_M1=%(P1_M1), P2_M1=%(P2_M1), P2_M2=%(P2_M2)}")"/>

<!-- Testing nullable parameter values -->
<Output TaskParameter="Output1" Property/>
<!-- Output: 33 + 3: 36 -->
<Message Text="33 + 3: $(DefaultResult)"/>
<!-- Testing nullable parameter values with default argument -->
<Output TaskParameter="Output1" Property/>
<!-- Output: default(int?) + 3: -->
<Message Text="default(int?) + 3: $(DefaultResult)"/>
<Output TaskParameter="Output1" Property />
<!-- Output: default(int) + 3: 3 -->
<Message Text="default(int) + 3: $(DefaultResult)"
<!-- Defining a method once and calling it multiple times (this is more resource-efficient than always using Run) -->
<!-- (the GUID-testing regex was taken from the Regular Expression Library, http://regexlib.com/) -->
<Output TaskParameter="OutputMethodId" Property />
<!-- The first call -->
<Output TaskParameter="Output1" Property />
<!-- Output: IsGuid({914D226A-2F5B-4944-934D-96BBE6571977}): True -->
<Message Text="IsGuid({914D226A-2F5B-4944-934D-96BBE6571977}): $(IsGuidResult)"
<!-- The second call; recompiling the method -->
<Output TaskParameter="Output1" Property />
<!-- Output: IsGuid({X14D226A-2F5B-4944-934D-96BBE6571977}): False -->
<Message Text="IsGuid({X14D226A-2F5B-4944-934D-96BBE6571977}): $(IsGuidResult)"
<!-- Using a parameter to define part of the code for a Run task action. -->
<PropertyGroup>
  <MathArgument>42 - 37</MathArgument>
See Also

Reference

MSBuild.ExtensionPack.Framework Namespace

See Also

Reference

MSBuild.ExtensionPack.Framework Namespace
DynamicExecute Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

DynamicExecute Class
MSBuild.ExtensionPack.Framework Namespace
**DynamicExecute**

Properties

The **DynamicExecute** type exposes the following members.

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ClosureId</td>
<td>The identifier of the closure instance.</td>
</tr>
<tr>
<td>Code</td>
<td>The actual method code for dynamic execution.</td>
</tr>
<tr>
<td>Input1</td>
<td>The value for the first input parameter.</td>
</tr>
<tr>
<td>Input2</td>
<td>The value for the second input parameter.</td>
</tr>
<tr>
<td>Input3</td>
<td>The value for the third input parameter.</td>
</tr>
<tr>
<td>Inputs</td>
<td>Specifies the inputs for <strong>Code</strong>. Each input has a type and a name.</td>
</tr>
<tr>
<td>InputValue</td>
<td>The value to set.</td>
</tr>
<tr>
<td>MethodId</td>
<td>The identifier of the method definition.</td>
</tr>
<tr>
<td>Name</td>
<td>The name of the input argument to set, or the output argument to retrieve.</td>
</tr>
<tr>
<td>NoDefaultParameters</td>
<td>Specifies to not define the default parameters for <strong>Code</strong>.</td>
</tr>
<tr>
<td>NoDefaultReferences</td>
<td>Specifies to not include the default references for <strong>Code</strong>.</td>
</tr>
<tr>
<td>NoDefaultUsingNamespaces</td>
<td>Specifies to not include the default &quot;using namespaces&quot; for <strong>Code</strong>.</td>
</tr>
<tr>
<td>Output1</td>
<td>The value of the first closure output.</td>
</tr>
<tr>
<td>Output2</td>
<td>The value of the second closure output.</td>
</tr>
<tr>
<td>Output3</td>
<td>The value of the third closure output.</td>
</tr>
<tr>
<td>OutputClosureId</td>
<td>The ID of a closure instance.</td>
</tr>
<tr>
<td>OutputMethodId</td>
<td>The ID of a defined method.</td>
</tr>
<tr>
<td>Outputs</td>
<td>Specifies the outputs for <strong>Code</strong>. Each output has a type and a name.</td>
</tr>
<tr>
<td>OutputValue</td>
<td>The value of a closure output.</td>
</tr>
<tr>
<td>References</td>
<td>Specifies additional references for Code.</td>
</tr>
<tr>
<td>------------</td>
<td>------------------------------------------</td>
</tr>
<tr>
<td>UsingNamespaces</td>
<td>Specifies additional &quot;using namespaces&quot; for Code. These are namespaces that are brought into the code's scope.</td>
</tr>
</tbody>
</table>

**See Also**

**Reference**

DynamicExecute Class

MSBuild.ExtensionPack.Framework Namespace

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**DynamicExecuteClosureId Property**

The identifier of the closure instance.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

This is a required parameter for the **SetInput**, **Invoke**, **GetOutput**, and **Destroy** task actions.

**See Also**

Reference  
**DynamicExecute Class**  
**MSBuild.ExtensionPack.Framework Namespace**

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**DynamicExecuteCode**

**Property**

The actual method code for dynamic execution.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

This is a required parameter for the **Define** and **Run** task actions.

This code is treated as a method body when compiled. The method does not return a value; rather, outputs are passed as reference parameters to the method.

**See Also**

Reference

- DynamicExecute Class

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**DynamicExecuteInput1 Property**

The value for the first input parameter.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

This is an optional parameter for the **Run** and **Call** task actions.

**See Also**

Reference

DynamicExecute Class

MSBuild.ExtensionPack.Framework Namespace

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**DynamicExecuteInput2 Property**

The value for the second input parameter.

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**Remarks**

This is an optional parameter for the **Run** and **Call** task actions.

**See Also**

Reference

DynamicExecute Class

MSBuild.ExtensionPack.Framework Namespace

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**DynamicExecuteInput3 Property**

The value for the third input parameter.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

This is an optional parameter for the Run and Call task actions.

**See Also**

Reference  
DynamicExecute Class  
MSBuild.ExtensionPack.Framework Namespace

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DynamicExecuteInputs Property

Specifies the inputs for Code. Each input has a type and a name.

**Namespace:** MSBuild.ExtensionPack.Framework
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**Remarks**

This is an optional parameter for the Define and Run task actions.

This may be set to a string containing a comma-delimited or semicolon-delimited sequence of (type, name) pairs.

Otherwise, each input is represented by a task item. The name of an input is taken from the metadata "Name", if it exists; otherwise, it is taken from the item's identity. The type of an input is taken from the metadata "Type".

**See Also**

Reference

DynamicExecute Class
MSBuild.ExtensionPack.Framework Namespace
DynamicExecuteNoDefaultParameters

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**DynamicExecuteInputValue Property**

The value to set.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

This is a required parameter for the **SetInput** task action.

**See Also**

Reference

**DynamicExecute Class**  
**MSBuild.ExtensionPack.Framework Namespace**

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**DynamicExecuteMethodId**

**Property**

The identifier of the method definition.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

This is a required parameter for the **Create** and **Call** task actions.

**See Also**

**Reference**

DynamicExecute Class  
MSBuild.ExtensionPack.Framework Namespace

---

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**DynamicExecuteName Property**

The name of the input argument to set, or the output argument to retrieve.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

This is a required parameter for the **SetInput** and **GetOutput** task actions.

**See Also**

Reference  
DynamicExecute Class  
MSBuild.ExtensionPack.Framework Namespace

---

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**DynamicExecuteNoDefaultParameters** *MSBuild Extension Pack Help 4.0.12.0*

Specifies to not define the default parameters for Code.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**Remarks**

This is an optional parameter for the Define and Run task actions.

---

**See Also**

Reference

- DynamicExecute Class
- DynamicExecuteInputs

---

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**DynamicExecuteNoDefaultReferences**

Property

Specifies to not include the default references for Code.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

This is an optional parameter for the **Define** and **Run** task actions.

**See Also**

Reference

DynamicExecute Class  
MSBuild.ExtensionPack.Framework Namespace  
DynamicExecuteReferences

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**DynamicExecuteNoDefaultUsingNamespaces**

Specifies to not include the default "using namespaces" for Code.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

This is an optional parameter for the **Define** and **Run** task actions.

**See Also**

**Reference**

- DynamicExecute Class
- DynamicExecuteUsingNamespaces

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Send comments on this topic to MSBuild ExtensionPack Feedback
DynamicExecuteOutput1 Property

The value of the first closure output.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

Remarks

This is an output for the Run and Call task actions.

See Also

Reference
DynamicExecute Class
MSBuild.ExtensionPack.Framework Namespace

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DynamicExecuteOutput2 Property

The value of the second closure output.

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**Remarks**

This is an output for the **Run** and **Call** task actions.

**See Also**

**Reference**

DynamicExecute Class

MSBuild.ExtensionPack.Framework Namespace

---

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DynamicExecuteOutput3 Property

The value of the third closure output.

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

Remarks

This is an output for the **Run** and **Call** task actions.

See Also

Reference

DynamicExecute Class

MSBuild.ExtensionPack.Framework Namespace

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DynamicExecuteOutputClosureId  MSBuild Extension Pack  Help 4.0.12.0

Property

The ID of a closure instance.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

Remarks

This is an output for the Create task action.

See Also

Reference

DynamicExecute Class
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**DynamicExecuteOutputMethodId**  
*MSBuild Extension Pack Help 4.0.12.0*

**Property**

The ID of a defined method.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

This is an output for the **Define** and **Run** task actions.

**See Also**

Reference  
**DynamicExecute Class**  
**MSBuild.ExtensionPack.Framework Namespace**

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### DynamicExecuteOutputs Property

Specifies the outputs for Code. Each output has a type and a name.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

#### Remarks

This is an optional parameter for the **Define** and **Run** task actions.

This may be set to a string containing a comma-delimited or semicolon-delimited sequence of (type, name) pairs.

Otherwise, each output is represented by a task item. The name of an output is taken from the metadata "Name", if it exists; otherwise, it is the item's identity. The type of an output is taken from the metadata "Type".

#### See Also

**Reference**  
DynamicExecute Class  
MSBuild.ExtensionPack.Framework Namespace
DynamicExecuteOutputValue Property

The value of a closure output.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

Remarks

This is an output for the GetOutput task action.

See Also

Reference
DynamicExecute Class
MSBuild.ExtensionPack.Framework Namespace

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DynamicExecuteReferences Property

Specifies additional references for Code.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

Remarks

This is an optional parameter for the Define and Run task actions.

The name of a reference is taken from the metadata "Name", if it exists; otherwise, it is the item's identity.

To reference assemblies in the GAC, a strong name must be used, e.g., "System.Windows.Forms, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089".

The default references are System (System, Version=4.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089), System.Core (System.Core, Version=4.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089), Microsoft.Build.Framework (Microsoft.Build.Framework, Version=4.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a), and Microsoft.Build.Utilities.v4.0 (Microsoft.Build.Utilities.v4.0, Version=4.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a).

See Also

Reference
DynamicExecute Class
MSBuild.ExtensionPack.Framework Namespace
DynamicExecuteNoDefaultReferences

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**DynamicExecuteUsingNamespaces** MSBuild Extension Pack Help 4.0.12.0

Specifies additional "using namespaces" for Code. These are namespaces that are brought into the code's scope.

**Namespace**: MSBuild.ExtensionPack.Framework  
**Assembly**: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

### Remarks

This is an optional parameter for the **Define** and **Run** task actions.

The name of a namespace is taken from the metadata "Name", if it exists; otherwise, it is the item's identity.


### See Also

**Reference**

- DynamicExecute Class
- DynamicExecuteNoDefaultUsingNamespaces

---

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**Gac Class**  
MSBuild Extension Pack Help 4.0.12.0

**Valid TaskActions are:**

*AddAssembly* (Required: AssemblyPath Optional: MachineName, RemoteAssemblyPath, UserName, UserPassword)

*CheckExists* (Required: AssemblyName Optional: MachineName)

*RemoveAssembly* (Required: AssemblyName Optional: MachineName, UserName, UserPassword)

**Remote Execution Support:** Partial (not for CheckExists)

---

**Inheritance Hierarchy**

- System
  - Object
  - Microsoft.Build.UtilitiesTask
    - MSBuild.ExtensionPackBaseTask
      - MSBuild.ExtensionPack.FrameworkGac

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The *Gac* type exposes the following members.

---

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🛠️ Gac</td>
<td></td>
</tr>
</tbody>
</table>

---

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>📚 AssemblyName</td>
<td>Sets the name of the assembly.</td>
</tr>
<tr>
<td>📚 AssemblyPath</td>
<td>Sets the path to the assembly to be added the GAC</td>
</tr>
<tr>
<td>📚 Exists</td>
<td>Gets whether the assembly exists in the GAC</td>
</tr>
<tr>
<td>🚫 Force</td>
<td>Set to True to force the file to be gacc'ed (overwrite any existing)</td>
</tr>
</tbody>
</table>
RemoteAssemblyPath

Sets the remote path of the assembly. Note that gacutil.exe must exist on the remote server and be in its Path environment variable.

Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\.Common\MSBuild.ExtensionPack.tasks')"/>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- Add an assembly to the local cache -->
    <!-- Remove an assembly from the local cache -->
    <!-- Add an assembly to a remote machine cache -->
    <!-- Remove an assembly from a remote machine cache -->
    <!-- Check whether an assembly exists in the local cache -->
  </Target>
</Project>
```

See Also

Reference

MSBuild.ExtensionPack.Framework Namespace

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Gac Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Gac Class
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
The **Gac** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AssemblyName</td>
<td>Sets the name of the assembly.</td>
</tr>
<tr>
<td>AssemblyPath</td>
<td>Sets the path to the assembly to be added the GAC</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the assembly exists in the GAC</td>
</tr>
<tr>
<td>Force</td>
<td>Set to True to force the file to be gacc'ed (overwrite any existing)</td>
</tr>
<tr>
<td>RemoteAssemblyPath</td>
<td>Sets the remote path of the assembly. Note that gacutil.exe must exist on the remote server and be in it's Path environment variable</td>
</tr>
</tbody>
</table>

## See Also

**Reference**

- Gac Class

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**GacAssemblyName**

**Property**

Sets the name of the assembly.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also

**Reference**

Gac Class  
MSBuild.ExtensionPack.Framework Namespace

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GacAssemblyPath Property

Sets the path to the assembly to be added the GAC

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Gac Class
MSBuild.ExtensionPack.Framework Namespace

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GacExists Property

Gets whether the assembly exists in the GAC

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Gac Class
MSBuild.ExtensionPack.Framework Namespace

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GacForce Property

Set to True to force the file to be gacc'ed (overwrite any existing)

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Gac Class
MSBuild.ExtensionPack.Framework Namespace

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GacRemoteAssemblyPath Property

Sets the remote path of the assembly. Note that gacutil.exe must exist on the remote server and be in it's Path environment variable.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Gac Class
MSBuild.ExtensionPack.Framework Namespace

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GenericTool Class

This task can be used to wrap any executable

Inheritance Hierarchy

[SystemObject]  [Microsoft.Build.UtilitiesTask]
  [Microsoft.Build.UtilitiesToolTask]

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The GenericTool type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GenericTool</td>
<td></td>
</tr>
</tbody>
</table>

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ErrorExitCodes</td>
<td>The list of Error Exit Codes</td>
</tr>
<tr>
<td>Executable</td>
<td>The Executable to call</td>
</tr>
<tr>
<td>LogToConsole</td>
<td>Set to true to log output to the console. Default is false</td>
</tr>
<tr>
<td>Parameters</td>
<td>Sets the parameters to pass to the Executable. The parameter should be defined in the 'value' metadata of an Item.</td>
</tr>
<tr>
<td>RealExitCode</td>
<td>The real exit code returned from the Executable</td>
</tr>
<tr>
<td>SuccessExitCodes</td>
<td>The list of Success Exit Codes</td>
</tr>
<tr>
<td>WarningExitCodes</td>
<td>The list of Warning Exit Codes</td>
</tr>
</tbody>
</table>

Examples
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\Common\MSBuild.ExtensionPack.tasks')"></TPath>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <ItemGroup>
      <Param Include="Source">
        <value>c:\b</value>
      </Param>
      <Param Include="Destination">
        <value>c:\bb 3</value>
      </Param>
      <Param Include="Files">
        <value>*.*</value>
      </Param>
      <Param Include="Options">
        <value>/Mir</value>
      </Param>
    </ItemGroup>
  </Target>
</Project>

See Also

Reference
MSBuild.ExtensionPack.Framework Namespace

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**GenericTool Constructor**  MSBuild Extension Pack Help 4.0.12.0

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

### See Also

**Reference**

- GenericTool Class

---

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The **GenericTool** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ErrorExitCodes</td>
<td>The list of Error Exit Codes</td>
</tr>
<tr>
<td>Executable</td>
<td>The Executable to call</td>
</tr>
<tr>
<td>LogToConsole</td>
<td>Set to true to log output to the console. Default is false</td>
</tr>
<tr>
<td>Parameters</td>
<td>Sets the parameters to pass to the Executable. The parameter should be</td>
</tr>
<tr>
<td></td>
<td>defined in the ‘value’ metadata of an Item.</td>
</tr>
<tr>
<td>RealExitCode</td>
<td>The real exit code returned from the Executable</td>
</tr>
<tr>
<td>SuccessExitCodes</td>
<td>The list of Success Exit Codes</td>
</tr>
<tr>
<td>WarningExitCodes</td>
<td>The list of Warning Exit Codes</td>
</tr>
</tbody>
</table>

## See Also

**Reference**

- **GenericTool Class**
- **MSBuild.ExtensionPack.Framework Namespace**

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Send comments on this topic to **MSBuild ExtensionPack Feedback**
**GenericToolErrorExitCodes Property**

The list of Error Exit Codes

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

### See Also

**Reference**

GenericTool Class  
MSBuild.ExtensionPack.Framework Namespace

---

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**GenericToolExecutable Property**

The Executable to call

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

GenericTool Class  
MSBuild.ExtensionPack.Framework Namespace

---

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GenericToolLogToConsole Property

Set to true to log output to the console. Default is false

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
GenericTool Class
MSBuild.ExtensionPack.Framework Namespace

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**GenericToolParameters**

**Property**

Sets the parameters to pass to the Executable. The parameter should be defined in the 'value' metadata of an Item.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**

- **GenericTool Class**
- **MSBuild.ExtensionPack.Framework Namespace**

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Send comments on this topic to MSBuild ExtensionPack Feedback
GenericToolRealExitCode Property

The real exit code returned from the Executable

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

GenericTool Class
MSBuild.ExtensionPack.Framework Namespace

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GenericToolSuccessExitCodes Property

The list of Success Exit Codes

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
GenericTool Class
MSBuild.ExtensionPack.Framework Namespace

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GenericToolWarningExitCodes Property

The list of Warning Exit Codes

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

GenericTool Class

MSBuild.ExtensionPack.Framework Namespace

---

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**Guid Class**

Valid TaskActions are:

*Create* (Output: GuidString, FormattedGuidString)

*CreateCrypto* (Output: GuidString, FormattedGuidString)

Remote Execution Support: NA

**Inheritance Hierarchy**

SystemObject  Microsoft.Build.UtilitiesTask
   MSBuild.ExtensionPackBaseTask
        MSBuild.ExtensionPack.FrameworkGuid

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The **Guid** type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guid</td>
<td></td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FormattedGuidString</td>
<td>32 digits separated by hyphens: xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxx</td>
</tr>
<tr>
<td>GuidString</td>
<td>32 digits: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</td>
</tr>
</tbody>
</table>

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"
  <PropertyGroup>
```
<TPath>$(MSBuildProjectDirectory)\..\MSBuild</TPath>
<TPath Condition="Exists('$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks')" />
<Import Project="$(TPath)"/>
<Target Name="Default">
    <!-- Create a new Guid and get the formatted and unformatted values -->
        <Output TaskParameter="FormattedGuidString" PropertyName="GuidString"/>
        <Output TaskParameter="GuidStringItem"/>
    <Message Text="GuidStringItem: $(GuidStringItem)"/>
    <Message Text="FormattedGuidString: $(FormattedGuidString1)"/>
    <!-- Create a new cryptographically strong Guid and get the formatted and unformatted values -->
        <Output TaskParameter="FormattedGuidString" PropertyName="GuidString"/>
        <Output TaskParameter="GuidStringItem"/>
    <Message Text="GuidStringItem Crypto: $(GuidStringItem)"/>
    <Message Text="FormattedGuidString Crypto: $(FormattedGuidString1)"/>
</Target>
</Project>

See Also
Reference
MSBuild.ExtensionPack.Framework Namespace

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Guid Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Guid Class
MSBuild.ExtensionPack.Framework Namespace

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Guid Properties

The Guid type exposes the following members.

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FormattedGuidString</td>
<td>32 digits separated by hyphens: xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx</td>
</tr>
<tr>
<td>GuidString</td>
<td>32 digits: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx</td>
</tr>
</tbody>
</table>

See Also

Guid Class
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
GuidFormattedGuidString Property

32 digits separated by hyphens: xxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Guid Class
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**GuidGuidString Property**

MSBuild Extension Pack Help 4.0.12.0

32 digits: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

Reference

Guid Class

MSBuild.ExtensionPack.Framework Namespace

---

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ILMerge Class

MSBuild Extension Pack Help 4.0.12.0

This task wraps ILMerge.

This has been tested using ILMerge v2.10.0526

Inheritance Hierarchy

System
  Object
  Microsoft.Build.Utilities
    Task
    Microsoft.Build.Utilities
      ToolTask
        MSBuild.ExtensionPack.Framework
          ILMerge

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The ILMerge type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🎧</td>
<td>ILMerge</td>
</tr>
</tbody>
</table>

Top

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🎧 AllowDuplicateResources</td>
<td>AllowDuplicateResources</td>
</tr>
<tr>
<td>🎧 AllowDuplicateTypes</td>
<td>Allows the user to either allow all public types to be renamed when they are duplicates, or to specify it for arbitrary type names Command line option: [/allowDup[:typeName]]* Default: no duplicates of public types allowed.</td>
</tr>
<tr>
<td>🎧 AllowMultipleAssemblyLevelAttributes</td>
<td>If set, any assembly-level attributes names that have the same type are copied over into the target directory as long as the definition of the attribute type specifies that “AllowMultiple” is true. Command line option: /allowMultiple Default: false</td>
</tr>
<tr>
<td>Feature</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>AllowZeroPeKind</td>
<td>When this is set before calling Merge, then if an assembly's PeKind flag (this is the value of the field listed as .corflags in the Manifest) is zero it will be treated as if it was ILonly.</td>
</tr>
<tr>
<td></td>
<td>This can be used to allow C++ assemblies to be merged; it does not appear that the C++ compiler writes the value as ILonly.</td>
</tr>
<tr>
<td></td>
<td>However, if such an assembly has any non-IL features, then they will probably not be copied over into the target assembly correctly.</td>
</tr>
<tr>
<td></td>
<td>So please use this option with caution.</td>
</tr>
<tr>
<td></td>
<td>Command line option: /zeroPeKind</td>
</tr>
<tr>
<td></td>
<td>Default: false</td>
</tr>
<tr>
<td>AttributeFile</td>
<td>If this is set before calling Merge, then it specifies the path and filename to an attribute assembly, an assembly that will be used to get all of the assembly-level attributes such as Culture, Version, etc.</td>
</tr>
<tr>
<td></td>
<td>It will also be used to get the Win32 Resources from. It is mutually exclusive with the CopyAttributes property (Section 2.7).</td>
</tr>
<tr>
<td></td>
<td>When it is not specified, then the Win32 Resources from the primary assembly are copied over into the target assembly.</td>
</tr>
<tr>
<td></td>
<td>If it is not a full path, then the current directory is used.</td>
</tr>
<tr>
<td></td>
<td>Command line option: /attr:filename</td>
</tr>
<tr>
<td></td>
<td>Default: null</td>
</tr>
<tr>
<td>Closed</td>
<td>When this is set before calling Merge, then the &quot;transitive closure&quot; of the input assemblies is computed and added to the list of input assemblies.</td>
</tr>
<tr>
<td></td>
<td>An assembly is considered part of the transitive closure if it is referenced, either directly or indirectly, from one of the originally specified input assemblies and it has an external reference to one of the input assemblies, or one of the assemblies that has such a reference.</td>
</tr>
<tr>
<td>Option</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>CopyAttributes</strong></td>
<td>When this is set before calling Merge, then the assembly level attributes of each input assembly are copied over into the target assembly. Any duplicate attribute overwrites a previously copied attribute. If you want to allow duplicates (for those attributes whose type specifies “AllowMultiple” in their definition), then you can also set the AllowMultipleAssemblyLevelAttributes. The input assemblies are processed in the order they are specified. This option is mutually exclusive with specifying an attribute assembly, i.e., the property AttributeFile. When an attribute assembly is specified, then no assembly-level attributes are copied over from the input assemblies.</td>
</tr>
<tr>
<td><strong>DebugInfo</strong></td>
<td>When this is set to true, ILMerge creates a .pdb file for the output assembly and merges into it any .pdb files found for input assemblies. If you do not want a .pdb file created for the output assembly, either set this property to false or else specify the /ndebug option at the command line.</td>
</tr>
<tr>
<td><strong>DelaySign</strong></td>
<td>When this is set before calling Merge, then the target assembly will be delay signed. This can be set only in conjunction with the /keyfile option (Section 2.13).</td>
</tr>
<tr>
<td><strong>DeleteInputAssemblies</strong></td>
<td>Set to true to delete the InputAssemblies after the merged file has been created. Default is false;</td>
</tr>
</tbody>
</table>
| ExcludeFile | This property is used only in conjunction with the Internalize property (Section 2.12). When this is set before calling Merge, it indicates the path and filename that will be used to identify types that are not to have their visibility modified.

If Internalize is true, but ExcludeFile is "", then all types in any assembly other than the primary assembly are made non-public.

Setting this property implicitly sets Internalize to true. The contents of the file should be one regular expression per line.

The syntax is that defined in the .NET namespace System.Text.RegularExpressions for regular expressions.

The regular expressions are matched against each type's full name, e.g., "System.Collections.IList".

If the match fails, it is tried again with the assembly name (surrounded by square brackets) prepended to the type name.

Thus, the pattern "^[A].*" excludes all types in assembly A from being made non-public. (The backslashes are required because the string is treated as a regular expression.)

The pattern "N.T" will match all types named T in the namespace named N no matter what assembly they are defined in.

It is important to note that the regular expressions are not anchored to the beginning of the string; if this is desired, use the appropriate regular expression operator characters to do so.

Command line option: /internalize[:excludeFile]

Default: null |
| FileAlignment | This controls the file alignment used for the target assembly. The setter sets the value to the largest power of two that is no larger than the supplied argument, and is at least 512.

Command line option: /align:n

Default: 512 |
<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>InputAssemblies</strong></td>
<td>Sets the input assemblies to merge.</td>
</tr>
<tr>
<td><strong>Internalize</strong></td>
<td>This controls whether types in assemblies other than the primary assembly have their visibility modified. When it is true, then all non-exempt types that are visible outside of their assembly have their visibility modified so that they are not visible from outside of the merged assembly. A type is exempt if its full name matches a line from the ExcludeFile (Section 2.10) using the .NET regular expression engine.</td>
</tr>
<tr>
<td>Command line option: /internalize[:excludeFile]</td>
<td></td>
</tr>
<tr>
<td>Default: false</td>
<td></td>
</tr>
<tr>
<td><strong>KeyFile</strong></td>
<td>When this is set before calling Merge, it specifies the path and filename to a .snk file. The target assembly will be signed with its contents and will then have a strong name. It can be used with the DelaySign property (Section 2.9) to have the target assembly delay signed. This can be done even if the primary assembly was fully signed. Command line option: /keyfile:filename</td>
</tr>
<tr>
<td>Default: null</td>
<td></td>
</tr>
<tr>
<td><strong>LogFile</strong></td>
<td>When this is set before calling Merge, it indicates the path and filename that log messages are written to. If LogMessages is true, but LogFile is null, then log messages are written to Console.Out. Command line option: /log[:logfile]</td>
</tr>
<tr>
<td>Default: null</td>
<td></td>
</tr>
<tr>
<td><strong>LogMessages</strong></td>
<td>When this is set before calling Merge, then log messages are written. It is used in conjunction with the LogFile property. If Log is true, but LogFile is null, then log messages are written to Console.Out. To specify this behavior on the command line, the option &quot;/log&quot; can be given without a log file. Command line option: /log[:logfile]</td>
</tr>
<tr>
<td>Default: false</td>
<td></td>
</tr>
</tbody>
</table>
| **OutputFile** | This must be set before calling Merge. It specifies the path and filename that the target assembly will be written to.  
Command line option: `/out:filename`  
Default: null |
| **PublicKeyTokens** | This must be set before calling Merge. It indicates whether external assembly references in the manifest of the target assembly will use full public keys (false) or public key tokens (true).  
Command line option: `/out:filename`  
Default: true |
| **SearchDirectories** | Sets the directories to be used to search for input assemblies. Each item should contain a directory name.  
Command line option: `/lib:directory` |
| **StrongNameLost** | Once merging is complete, this property is true if and only if the primary assembly had a strong name, but the target assembly does not.  
This can occur when an .snk file is not specified, or if something goes wrong trying to read its contents. |
| **TargetKind** | This controls whether the target assembly is created as a library, a console application or as a Windows application. When it is not specified, then the target assembly will be the same kind as that of the primary assembly. (In that case, the file extensions found on the specified target assembly and the primary assembly must match.) When it is specified, then the file extension of the target assembly must match the specification. The possible values are `ILMerge.Kind.{Dll, Exe, WinExe}`  
Command line option: `/target:(library|exe|winexe)`  
Default: `ILMerge.Kind.SameAsPrimaryAssembly` |
| **TargetPlatformDirectory** | This method sets the .NET Framework for the target assembly to be the one specified by platform. Valid strings for the first argument are "v1", "v1.1", "v2", and "v4".  
The "v" is case insensitive and is also optional. |
This way ILMerge can be used to "cross-compile", i.e., it can run in one version of the framework and generate the target assembly so it will run under a different assembly. The second argument is the directory in which mscorlib.dll is to be found.

Command line option: /targetplatform:version,platformdirectory

Default: null

| **TargetPlatformVersion** | This method sets the .NET Framework for the target assembly to be the one specified by platform. Valid strings for the first argument are "v1", "v1.1", "v2", and "v4". The "v" is case insensitive and is also optional. This way ILMerge can be used to "cross-compile", i.e., it can run in one version of the framework and generate the target assembly so it will run under a different assembly. The second argument is the directory in which mscorlib.dll is to be found.

Command line option: /targetplatform:version,platformdirectory

Default: null |
| --- | --- |
| **UnionMerge** | When this is true, then types with the same name are all merged into a single type in the target assembly. The single type is the union of all of the individual types in the input assemblies: it contains all of the members from each of the corresponding types in the input assemblies. It cannot be specified at the same time as /allowDup.

Command line option: /union

Default: false |
<p>| <strong>Version</strong> | When this has a non-null value, then the target assembly will be given its value as the version number of the assembly. When specified on the command line, the version is read in as a string and should look like &quot;6.2.1.3&quot; (but without the quote marks). The version must be a valid assembly version as... |</p>
<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>XmlDocs</td>
<td>This property controls whether XML documentation files are merged to produce an XML documentation file for the target assembly.</td>
</tr>
</tbody>
</table>

Command line option: /xmldocs
Default: false

---

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\.\MSBuild.ExtensionPack.Tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\.Common\MSBuild.ExtensionPack.Tasks')"/>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <ItemGroup>
      <Input Include="C:\b\MSBuild.ExtensionPack.dll"/>
      <Input Include="C:\b\Ionic.Zip.dll"/>
    </ItemGroup>
    <MSBuild.ExtensionPack.Framework.ILMerge InputAssemblies/>
  </Target>
</Project>
```

---

**See Also**

**Reference**

MSBuild.ExtensionPack.Framework Namespace

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ILMerge Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
ILMerge Class
MSBuild.ExtensionPack.Framework Namespace

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### ILMerge Properties

The **ILMerge** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AllowDuplicateResources</strong></td>
<td>Allows the user to either allow all public types to be renamed when they are duplicates, or to specify it for arbitrary type names.</td>
</tr>
<tr>
<td></td>
<td><strong>Command line option:</strong> [/allowDup[:typeName]]*</td>
</tr>
<tr>
<td></td>
<td><strong>Default:</strong> no duplicates of public types allowed.</td>
</tr>
<tr>
<td><strong>AllowDuplicateTypes</strong></td>
<td>If set, any assembly-level attributes names that have the same type are copied over into the target directory as long as the definition of the attribute type specifies that “AllowMultiple” is true.</td>
</tr>
<tr>
<td></td>
<td><strong>Command line option:</strong> /allowMultiple</td>
</tr>
<tr>
<td></td>
<td><strong>Default:</strong> false</td>
</tr>
<tr>
<td><strong>AllowMultipleAssemblyLevelAttributes</strong></td>
<td>When this is set before calling Merge, then if an assembly's PeKind flag (this is the value of the field listed as .corflags in the Manifest) is zero it will be treated as if it was ILOnly.</td>
</tr>
<tr>
<td></td>
<td>This can be used to allow C++ assemblies to be merged; it does not appear that the C++ compiler writes the value as ILOnly.</td>
</tr>
<tr>
<td></td>
<td>However, if such an assembly has any non-IL features, then they will probably not be copied over into the target assembly correctly.</td>
</tr>
<tr>
<td></td>
<td><strong>Command line option:</strong> /zeroPeKind</td>
</tr>
<tr>
<td></td>
<td><strong>Default:</strong> false</td>
</tr>
<tr>
<td><strong>AttributeFile</strong></td>
<td>If this is set before calling Merge, then it specifies the path and filename to an attribute assembly, an assembly that will be used to get all of the assembly-level attributes such as Culture, Version,</td>
</tr>
</tbody>
</table>
It will also be used to get the Win32 Resources from. It is mutually exclusive with the CopyAttributes property (Section 2.7).

When it is not specified, then the Win32 Resources from the primary assembly are copied over into the target assembly.

If it is not a full path, then the current directory is used.

Command line option: /attr:filename

Default: null

| **Closed** | When this is set before calling Merge, then the "transitive closure" of the input assemblies is computed and added to the list of input assemblies. An assembly is considered part of the transitive closure if it is referenced, either directly or indirectly, from one of the originally specified input assemblies and it has an external reference to one of the input assemblies, or one of the assemblies that has such a reference.

Command line option: /closed

Default: false |

| **CopyAttributes** | When this is set before calling Merge, then the assembly level attributes of each input assembly are copied over into the target assembly. Any duplicate attribute overwrites a previously copied attribute. If you want to allow duplicates (for those attributes whose type specifies “AllowMultiple” in their definition), then you can also set the AllowMultipleAssemblyLevelAttributes.

The input assemblies are processed in the order they are specified. This option is mutually exclusive with specifying an attribute assembly, i.e., the property AttributeFile.

When an attribute assembly is specified, then no assembly-level attributes are copied over from the input assemblies

Command line option: /copyattrs |
<table>
<thead>
<tr>
<th><strong>Property</strong></th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DebugInfo</strong></td>
<td>false</td>
<td>When this is set to true, ILMerge creates a .pdb file for the output assembly and merges into it any .pdb files found for input assemblies.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If you do not want a .pdb file created for the output assembly, either set this property to false or else specify the /nddebug option at the command line.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Command line option: /nddebug</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Default: true</td>
</tr>
<tr>
<td><strong>DelaySign</strong></td>
<td>null</td>
<td>When this is set before calling Merge, then the target assembly will be delay signed. This can be set only in conjunction with the /keyfile option (Section 2.13).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Command line option: /delaysign</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Default: null</td>
</tr>
<tr>
<td><strong>DeleteInputAssemblies</strong></td>
<td></td>
<td>Set to true to delete the InputAssemblies after the merged file has been created. Default is false;</td>
</tr>
<tr>
<td><strong>ExcludeFile</strong></td>
<td></td>
<td>This property is used only in conjunction with the Internalize property (Section 2.12). When this is set before calling Merge, it indicates the path and filename that will be used to identify types that are not to have their visibility modified.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If Internalize is true, but ExcludeFile is &quot;&quot;, then all types in any assembly other than the primary assembly are made non-public.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Setting this property implicitly sets Internalize to true. The contents of the file should be one regular expression per line.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The syntax is that defined in the .NET namespace System.Text.RegularExpressions for regular expressions.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The regular expressions are matched against each type's full name, e.g., &quot;System.Collections_IList&quot;.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If the match fails, it is tried again with the assembly name (surrounded by square brackets) prepended to the type name.</td>
</tr>
</tbody>
</table>
Thus, the pattern “\[A\].*” excludes all types in assembly A from being made non-public. (The backslashes are required because the string is treated as a regular expression.)

The pattern “N.T” will match all types named T in the namespace named N no matter what assembly they are defined in.

It is important to note that the regular expressions are not anchored to the beginning of the string; if this is desired, use the appropriate regular expression operator characters to do so.

Command line option: /internalize[:excludeFile]

Default: false

FileAlignment

This controls the file alignment used for the target assembly. The setter sets the value to the largest power of two that is no larger than the supplied argument, and is at least 512.

Command line option: /align:n

Default: 512

InputAssemblies

Sets the input assemblies to merge.

Internalize

This controls whether types in assemblies other than the primary assembly have their visibility modified. When it is true, then all non-exempt types that are visible outside of their assembly have their visibility modified so that they are not visible from outside of the merged assembly. A type is exempt if its full name matches a line from the ExcludeFile (Section 2.10) using the .NET regular expression engine.

Command line option: /internalize[:excludeFile]

Default: false

KeyFile

When this is set before calling Merge, it specifies the path and filename to a .snk file. The target assembly will be signed with its contents and will then have a strong name. It can be used with the DelaySign property (Section 2.9) to have the target assembly delay signed.

This can be done even if the primary assembly
<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LogFile</td>
<td>When this is set before calling Merge, it indicates the path and filename that log messages are written to. If LogMessages is true, but LogFile is null, then log messages are written to Console.Out. Command line option: /log[:logfile] Default: null</td>
</tr>
<tr>
<td>LogMessages</td>
<td>When this is set before calling Merge, then log messages are written. It is used in conjunction with the LogFile property. If Log is true, but LogFile is null, then log messages are written to Console.Out. To specify this behavior on the command line, the option &quot;/log&quot; can be given without a log file. Command line option: /log[:logfile] Default: false</td>
</tr>
<tr>
<td>OutputFile</td>
<td>This must be set before calling Merge. It specifies the path and filename that the target assembly will be written to. Command line option: /out:filename Default: null</td>
</tr>
<tr>
<td>PublicKeyTokens</td>
<td>This must be set before calling Merge. It indicates whether external assembly references in the manifest of the target assembly will use full public keys (false) or public key tokens (true). Command line option: /out:filename Default: true</td>
</tr>
<tr>
<td>SearchDirectories</td>
<td>Sets the directories to be used to search for input assemblies. Each item should contain a directory name. Command line option: /lib:directory</td>
</tr>
<tr>
<td>StrongNameLost</td>
<td>Once merging is complete, this property is true if and only if the primary assembly had a strong was fully signed. Command line option: /keyfile:filename Default: null</td>
</tr>
</tbody>
</table>
This can occur when an .snk file is not specified, or if something goes wrong trying to read its contents.

### TargetKind

This controls whether the target assembly is created as a library, a console application or as a Windows application. When it is not specified, then the target assembly will be the same kind as that of the primary assembly. (In that case, the file extensions found on the specified target assembly and the primary assembly must match.) When it is specified, then the file extension of the target assembly must match the specification. The possible values are `ILMerge.Kind.{Dll, Exe, WinExe}`

Command line option: `/target:(library|exe|winexe)`

Default: `ILMerge.Kind.SameAsPrimaryAssembly`

### TargetPlatformDirectory

This method sets the .NET Framework for the target assembly to be the one specified by platform. Valid strings for the first argument are "v1", "v1.1", "v2", and "v4". The "v" is case insensitive and is also optional. This way ILMerge can be used to "cross-compile", i.e., it can run in one version of the framework and generate the target assembly so it will run under a different assembly. The second argument is the directory in which mscorlib.dll is to be found.

Command line option:

```
/targetplatform:version,platformdirectory
```

Default: null

### TargetPlatformVersion

This method sets the .NET Framework for the target assembly to be the one specified by platform. Valid strings for the first argument are "v1", "v1.1", "v2", and "v4". The "v" is case insensitive and is also optional. This way ILMerge can be used to "cross-compile", i.e., it can run in one version of the framework and generate the target assembly so it will run under a different assembly.
<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
<th>Command line option</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>TargetPlatform</td>
<td>The second argument is the directory in which mscorlib.dll is to be found.</td>
<td>/targetplatform:version,platformdirectory</td>
<td>null</td>
</tr>
<tr>
<td>UnionMerge</td>
<td>When this is true, then types with the same name are all merged into a single type in the target assembly. The single type is the union of all of the individual types in the input assemblies: it contains all of the members from each of the corresponding types in the input assemblies. It cannot be specified at the same time as /allowDup.</td>
<td>/union</td>
<td>false</td>
</tr>
<tr>
<td>Version</td>
<td>When this has a non-null value, then the target assembly will be given its value as the version number of the assembly. When specified on the command line, the version is read in as a string and should look like &quot;6.2.1.3&quot; (but without the quote marks). The version must be a valid assembly version as defined by the attribute AssemblyVersion in the System.Reflection namespace.</td>
<td>/ver:version</td>
<td>null</td>
</tr>
<tr>
<td>XmlDocs</td>
<td>This property controls whether XML documentation files are merged to produce an XML documentation file for the target assembly.</td>
<td>/xmldocs</td>
<td>false</td>
</tr>
</tbody>
</table>
ILMergeAllowDuplicateResources Property

AllowDuplicateResources

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
ILMerge Class
MSBuild.ExtensionPack.Framework Namespace

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ILMergeAllowDuplicateTypes  MSBuild Extension Pack Help
property

Allows the user to either allow all public types to be renamed when they are duplicates, or to specify it for arbitrary type names

Command line option: [/allowDup[:typeName]]*

Default: no duplicates of public types allowed.

assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) version: 4.0.0.0

see also

reference

ILMerge Class
MSBuild.ExtensionPack.Framework Namespace

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ILMergeAllowMultipleAssemblyLevelAttributes Property

If set, any assembly-level attributes names that have the same type are copied over into the target directory as long as the definition of the attribute type specifies that “AllowMultiple” is true.

Command line option: /allowMultiple

Default: false

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
ILMerge Class
MSBuild.ExtensionPack.Framework Namespace

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**ILMergeAllowZeroPeKind**

**Property**

When this is set before calling Merge, then if an assembly's PeKind flag (this is the value of the field listed as .corflags in the Manifest) is zero it will be treated as if it was ILonly.

This can be used to allow C++ assemblies to be merged; it does not appear that the C++ compiler writes the value as ILonly.

However, if such an assembly has any non-IL features, then they will probably not be copied over into the target assembly correctly.

So please use this option with caution.

Command line option: /zeroPeKind

Default: false

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

**Reference**

ILMerge Class

MSBuild.ExtensionPack.Framework Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
See Also

ILMerge AttributeFile Property

If this is set before calling Merge, then it specifies the path and filename to an attribute assembly, an assembly that will be used to get all of the assembly-level attributes such as Culture, Version, etc.

It will also be used to get the Win32 Resources from. It is mutually exclusive with the CopyAttributes property (Section 2.7).

When it is not specified, then the Win32 Resources from the primary assembly are copied over into the target assembly.

If it is not a full path, then the current directory is used.

Command line option: /attr:filename

Default: null

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

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Send comments on this topic to MSBuild ExtensionPack Feedback
**ILMergeClosed Property**  MSBuild Extension Pack Help 4.0.12.0

When this is set before calling Merge, then the "transitive closure" of the input assemblies is computed and added to the list of input assemblies.

An assembly is considered part of the transitive closure if it is referenced, either directly or indirectly, from one of the originally specified input assemblies and it has an external reference to one of the input assemblies, or one of the assemblies that has such a reference.

Command line option: /closed

Default: false

**Namespace:** MSBuild.ExtensionPack.Framework
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

- ILMerge Class

---

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**ILMergeCopyAttributes Property**

When this is set before calling Merge, then the assembly level attributes of each input assembly are copied over into the target assembly.

Any duplicate attribute overwrites a previously copied attribute. If you want to allow duplicates (for those attributes whose type specifies “AllowMultiple” in their definition), then you can also set the `AllowMultipleAssemblyLevelAttributes`.

The input assemblies are processed in the order they are specified. This option is mutually exclusive with specifying an attribute assembly, i.e., the property `AttributeFile`.

When an attribute assembly is specified, then no assembly-level attributes are copied over from the input assemblies.

Command line option: `/copyattrs`

Default: false

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

- ILMerge Class

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ILMergeDebugInfo Property

When this is set to true, ILMerge creates a .pdb file for the output assembly and merges into it any .pdb files found for input assemblies.

If you do not want a .pdb file created for the output assembly, either set this property to false or else specify the /nddebug option at the command line.

Command line option: /nddebug

Default: true

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

ILMerge Class
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
ILMergeDelaySign Property

When this is set before calling Merge, then the target assembly will be delay signed. This can be set only in conjunction with the /keyfile option (Section 2.13).

Command line option: /delaysign

Default: null

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

ILMerge Class
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
ILMergeDeleteInputAssemblies Property

Set to true to delete the InputAssemblies after the merged file has been created. Default is false;

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

ILMerge Class
MSBuild.ExtensionPack.Framework Namespace

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**ILMergeExcludeFile Property**

This property is used only in conjunction with the Internalize property (Section 2.12). When this is set before calling Merge, it indicates the path and filename that will be used to identify types that are not to have their visibility modified.

If Internalize is true, but ExcludeFile is "", then all types in any assembly other than the primary assembly are made non-public.

Setting this property implicitly sets Internalize to true. The contents of the file should be one regular expression per line.

The syntax is that defined in the .NET namespace System.Text.RegularExpressions for regular expressions.

The regular expressions are matched against each type's full name, e.g., "System.Collections.IList".

If the match fails, it is tried again with the assembly name (surrounded by square brackets) prepended to the type name.

Thus, the pattern "^[A].*" excludes all types in assembly A from being made non-public. (The backslashes are required because the string is treated as a regular expression.)

The pattern "N.T" will match all types named T in the namespace named N no matter what assembly they are defined in.

It is important to note that the regular expressions are not anchored to the beginning of the string; if this is desired, use the appropriate regular expression operator characters to do so.

Command line option: /internalize[:excludeFile]

Default: null

**Namespace**: MSBuild.ExtensionPack.Framework  
**Assembly**: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version**: 4.0.0.0

**See Also**
**ILMergeFileAlignment Property**

This controls the file alignment used for the target assembly. The setter sets the value to the largest power of two that is no larger than the supplied argument, and is at least 512.

Command line option: /align:n

Default: 512

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**  
ILMerge Class  
MSBuild.ExtensionPack.Framework Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
ILMergeInputAssemblies Property

Sets the input assemblies to merge.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
ILMerge Class
MSBuild.ExtensionPack.Framework Namespace

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**ILMergeInternalize Property**

This controls whether types in assemblies other than the primary assembly have their visibility modified. When it is true, then all non-exempt types that are visible outside of their assembly have their visibility modified so that they are not visible from outside of the merged assembly. A type is exempt if its full name matches a line from the ExcludeFile (Section 2.10) using the .NET regular expression engine.

Command line option: /internalize[:excludeFile]

Default: false

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

Reference

ILMerge Class

MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**ILMergeKeyFile Property**

When this is set before calling Merge, it specifies the path and filename to a .snk file. The target assembly will be signed with its contents and will then have a strong name. It can be used with the DelaySign property (Section 2.9) to have the target assembly delay signed.

This can be done even if the primary assembly was fully signed.

Command line option: /keyfile:filename

Default: null

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

Reference

ILMerge Class

MSBuild.ExtensionPack.Framework Namespace

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ILMergeLogFile Property

When this is set before calling Merge, it indicates the path and filename that log messages are written to. If LogMessages is true, butLogFile is null, then log messages are written to Console.Out.

Command line option: /log[:logfile]

Default: null

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

ILMerge Class
MSBuild.ExtensionPack.Framework Namespace

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ILMergeLogMessages Property

When this is set before calling Merge, then log messages are written. It is used in conjunction with the LogFile property.

If Log is true, but LogFile is null, then log messages are written to Console.Out. To specify this behavior on the command line, the option "/log" can be given without a log file.

Command line option: /log[:logfile]

Default: false

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
ILMerge Class
MSBuild.ExtensionPack.Framework Namespace

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ILMergeOutputFile Property

This must be set before calling Merge. It specifies the path and filename that the target assembly will be written to.

Command line option: /out:filename

Default: null

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

ILMerge Class
MSBuild.ExtensionPack.Framework Namespace
ILMergePublicKeyTokens Property

This must be set before calling Merge. It indicates whether external assembly references in the manifest of the target assembly will use full public keys (false) or public key tokens (true).

Command line option: /out:filename

Default: true

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
ILMerge Class
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
ILMergeSearchDirectories Property

Sets the directories to be used to search for input assemblies. Each item should contain a directory name.

Command line option: /lib:directory

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

ILMerge Class

MSBuild.ExtensionPack.Framework Namespace

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ILMergeStrongNameLost Property

Once merging is complete, this property is true if and only if the primary assembly had a strong name, but the target assembly does not.

This can occur when an .snk file is not specified, or if something goes wrong trying to read its contents.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
ILMerge Class
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
ILMergeTargetKind Property

This controls whether the target assembly is created as a library, a console application or as a Windows application. When it is not specified, then the target assembly will be the same kind as that of the primary assembly. (In that case, the file extensions found on the specified target assembly and the primary assembly must match.) When it is specified, then the file extension of the target assembly must match the specification. The possible values are ILMerge.Kind.{Dll, Exe, WinExe}

Command line option: /target:(library|exe|winexe)

Default: ILMerge.Kind.SameAsPrimaryAssembly

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

ILMerge Class
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
ILMergeTargetPlatformDirectory Property

This method sets the .NET Framework for the target assembly to be the one specified by platform. Valid strings for the first argument are "v1", "v1.1", "v2", and "v4".

The "v" is case insensitive and is also optional. This way ILMerge can be used to "cross-compile", i.e., it can run in one version of the framework and generate the target assembly so it will run under a different assembly. The second argument is the directory in which mscorlib.dll is to be found.

Command line option: /targetplatform:version,platformdirectory

Default: null

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

ILMerge Class
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
ILMergeTargetPlatformVersion Property

This method sets the .NET Framework for the target assembly to be the one specified by platform. Valid strings for the first argument are "v1", "v1.1", "v2", and "v4".

The "v" is case insensitive and is also optional. This way ILMerge can be used to "cross-compile", i.e., it can run in one version of the framework and generate the target assembly so it will run under a different assembly. The second argument is the directory in which mscorlib.dll is to be found.

Command line option: /targetplatform:version,platformdirectory

Default: null

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
ILMerge Class
MSBuild.ExtensionPack.Framework Namespace

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ILMergeUnionMerge Property

When this is true, then types with the same name are all merged into a single type in the target assembly. The single type is the union of all of the individual types in the input assemblies: it contains all of the members from each of the corresponding types in the input assemblies. It cannot be specified at the same time as /allowDup.

Command line option: /union

Default: false

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  Version: 4.0.0.0

**See Also**

**Reference**

ILMerge Class

MSBuild.ExtensionPack.Framework Namespace

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ILMergeVersion Property

When this has a non-null value, then the target assembly will be given its value as the version number of the assembly. When specified on the command line, the version is read in as a string and should look like "6.2.1.3" (but without the quote marks). The version must be a valid assembly version as defined by the attribute AssemblyVersion in the System.Reflection namespace.

Command line option: /ver:version

Default: null

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

ILMerge Class
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**ILMergeXmlDocs Property**

This property controls whether XML documentation files are merged to produce an XML documentation file for the target assembly.

Command line option: /xmldocs

Default: false

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

ILMerge Class  
MSBuild.ExtensionPack.Framework Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
IncrementMethod
Enumeration

Specifies how certain version numbers are incremented by the task.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

## Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NoIncrement</td>
<td>0</td>
<td>Do not auto-increment the number.</td>
</tr>
<tr>
<td>AutoIncrement</td>
<td>1</td>
<td>Add one to the current number.</td>
</tr>
<tr>
<td>DateString</td>
<td>2</td>
<td>Format the current date and time using a formatting string, and use that as the number.</td>
</tr>
<tr>
<td>Julian</td>
<td>3</td>
<td>Format the current date as the two digit year and the day of the year, and use that as the number, i.e. the revision number for 7/03/2009 is 09184</td>
</tr>
<tr>
<td>YearWeekDay</td>
<td>4</td>
<td>Format the current date as YYWWDD where YY is the year, WW is the week number and DW is the day of the week e.g. 2 Feb 2010 would be 10062. 15 March 2010 will be 10121 and 19 December 2010 10475.</td>
</tr>
<tr>
<td>ElapsedDays</td>
<td>5</td>
<td>Calculate the number of days elapsed since a given StartDate. Take note of the StartDate, PaddingCount and PaddingDigit parameters.</td>
</tr>
</tbody>
</table>

## See Also

Reference

MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
Inheritance Hierarchy

SystemObject  Microsoft.Build.UtilitiesTask
   MSBuild.ExtensionPackBaseTask
      MSBuild.ExtensionPack.FrameworkMetadata

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The **Metadata** type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metadata</td>
<td></td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Items</td>
<td>Sets the source Items.</td>
</tr>
<tr>
<td>NewMetadata</td>
<td>Sets the string which contains the metadata. This should be in the format n1=v1;n2=v2;...</td>
</tr>
<tr>
<td>ResultItems</td>
<td>Gets the item which contains the result.</td>
</tr>
</tbody>
</table>

**Examples**

```xml
<Project xmlns="http://schemas.microsoft.com/developer/msbuild/2003"
```
<PropertyGroup>
</PropertyGroup>
<Import Project="$(TPath)"/>
<ItemGroup>
  <Server Include="dev01;dev02;dev03">
    <DbServer>dev-db01</DbServer>
  </Server>
</ItemGroup>
<Target Name="Demo">
  <MSBuild.ExtensionPack.Framework.Metadata TaskAction="! -- No way to change the existing item, only to make a new one.">
    <Output ItemName="Server2" TaskParameter="ResultItems" />
  <Message Text="Result:%0d%0a@(Server2->'%(Identity)=Source:	%(Source)	Dest:	%(Dest)	DbServer:	%(DbServer)','%0d%0a')" />
</Target>
</Project>

See Also
Reference
MSBuild.ExtensionPack.Framework Namespace

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Metadata Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

Metadata Class
MSBuild.ExtensionPack.Framework Namespace

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The **Metadata** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Items</td>
<td>Sets the source Items.</td>
</tr>
<tr>
<td>NewMetadata</td>
<td>Sets the string which contains the metadata. This should be in the format n1=v1;n2=v2;...</td>
</tr>
<tr>
<td>ResultItems</td>
<td>Gets the item which contains the result.</td>
</tr>
</tbody>
</table>

## See Also

**Reference**

- Metadata Class

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Send comments on this topic to [MSBuild ExtensionPack Feedback](mailto:feedback@MSBuildExtensionPack.com)
**MetadataItems Property**  MSBuild Extension Pack Help 4.0.12.0

Sets the source Items.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**  
Metadata Class  
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**MetadataNewMetadata Property**

Sets the string which contains the metadata.
This should be in the format \(n1=v1;n2=v2;\ldots\)

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

Metadata Class  
MSBuild.ExtensionPack.Framework Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**MetadataResultItems Property**

Gets the item which contains the result.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

### See Also

**Reference**

- Metadata Class

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**MSBuildHelper Class**

**Valid TaskActions are:**

*Escape* (**Required:** InputString **Output:** OutputString)

*FilterItems* (**Required:** InputItems1, RegexPattern **Optional:** Metadata **Output:** OutputItems)

*FilterItemsOnMetadata* (**Required:** InputItems1, InputItems2, Metadata **Optional:** Separator **Output:** OutputItems)

*GetCommonItems* (**Required:** InputItems1, InputItems2 **Output:** OutputItems, ItemCount)

*GetCurrentDirectory* (**Output:** CurrentDirectory)

*GetDistinctItems* (**Required:** InputItems1, InputItems2 **Output:** OutputItems, ItemCount)

*GetItem* (**Required:** InputItems1, Position **Output:** OutputItems)

*GetItemCount* (**Required:** InputItems1 **Output:** ItemCount)

*GetLastItem* (**Required:** InputItems1 **Output:** OutputItems)

*ItemColToString* (**Required:** InputItems1 **Optional:** Separator **Output:** OutputString)

*RemoveDuplicateFiles* (**Required:** InputItems1 **Output:** OutputItems, ItemCount)

*Sort* (**Required:** InputItems1 **Output:** OutputItems)

*StringToItemCol* (**Required:** ItemString, Separator **Output:** OutputItems, ItemCount)

*UpdateMetadata* (**Required:** InputItems1, InputItems2 **Output:** OutputItems)

**Remote Execution Support:** NA

**Inheritance Hierarchy**

`MSBuild.ExtensionPackBaseTask`  
`MSBuild.ExtensionPack.FrameworkMSBuildHelper`
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The **MSBuildHelper** type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSBuildHelper</td>
<td></td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CurrentDirectory</td>
<td>Gets the current directory</td>
</tr>
<tr>
<td>InputItems1</td>
<td>Sets InputItems1.</td>
</tr>
<tr>
<td>InputItems2</td>
<td>Sets InputItems2.</td>
</tr>
<tr>
<td>InString</td>
<td>Sets the input string</td>
</tr>
<tr>
<td>ItemCount</td>
<td>Gets the ItemCount.</td>
</tr>
<tr>
<td>ItemString</td>
<td>Sets the string to convert to a Task Item</td>
</tr>
<tr>
<td>Metadata</td>
<td>Sets the Metadata</td>
</tr>
<tr>
<td>OutputItems</td>
<td>Gets the OutputItems.</td>
</tr>
<tr>
<td>OutString</td>
<td>Gets the output string</td>
</tr>
<tr>
<td>Position</td>
<td>Sets the position of the Item to get</td>
</tr>
<tr>
<td>RegexPattern</td>
<td>Sets the regex pattern.</td>
</tr>
<tr>
<td>Separator</td>
<td>Sets the separator to use for splitting the ItemString when calling StringToItemCol. Also used in FilterItemsOnMetadata</td>
</tr>
</tbody>
</table>

### Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default;UpdateMetadata;FilterItemsOnMetadata"/>
```
<PropertyGroup>
  <TPath>$(MSBuildProjectDirectory)\.\MSBuild.ExtensionPack.tasks</TPath>
  <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\.\Common\MSBuild.ExtensionPack.tasks')"></TPath>
</PropertyGroup>
<Import Project="$(TPath)"/>
(Target Name="Default">
  <ItemGroup>
    <!-- Define some collections to use in the samples -->
    <Col1 Include="hello"/>
    <Col1 Include="how"/>
    <Col1 Include="are"/>
    <Col2 Include="you"/>
    <Col3 Include="hello"/>
    <Col3 Include="bye"/>
    <DuplicateFiles Include="C:\Demo\**\*"/>
    <XXX Include="AA"/>
    <XXX Include="AAB"/>
    <XXX Include="ABA"/>
    <XXX Include="AABA"/>
    <XXX Include="BBAA"/>
    <YYY Include="AA">
      <Filter>CC</Filter>
    </YYY>
    <YYY Include="AA">
      <Filter>CHJC</Filter>
    </YYY>
    <YYY Include="BB">
      <Filter>CCDG</Filter>
    </YYY>
    <YYY Include="CC">
      <Filter>CDC</Filter>
    </YYY>
    <YYY Include="DD">
      <Filter>CCEE</Filter>
    </YYY>
  </ItemGroup>
</Target>
<!-- Filter Items based on Name -->
  <Output TaskParameter="OutputItems" Item

<Message Text="filtered Items: %(filtered.Identity)"/>

<Output TaskParameter="OutputItems" Item="%(filtered.Identity)"/>

<Message Text="filteredbymeta Items: %(filteredbymeta.Identity)"/>

<Output TaskParameter="OutputItems" Item="%(filteredbymeta.Identity)"/>

<Message Text="OutString: $((out))"/>

<Output TaskParameter="OutString" Property="OutString" />

<Message Text="OutString: $((out))"/>

<Output TaskParameter="OutString" Property="OutString" />

<Message Text="Sorted Items: %(sorted.Identity)"/>

<Output TaskParameter="OutputItems" Item="%(sorted.Identity)"/>

<Message Text="Item: %(AnItem.Identity)"/>

<Output TaskParameter="OutputItems" Item="%(AnItem.Identity)"/>

<Message Text="Last Item: %(LastItem.Identity)"/>

<Output TaskParameter="OutputItems" Item="%(LastItem.Identity)"/>

<Message Text="Common Items: %(comm.Identity)"/>

<Output TaskParameter="OutputItems" Item="%(comm.Identity)"/>

<Message Text="get common items. Note that this can be done with out a custom task."/>

<Output TaskParameter="OutputItems" Item="get common items. Note that this can be done with out a custom task."/>
<Output TaskParameter="OutputItems" Item />
<Message Text="Distinct Items: %(distinct.Identity)"
<!-- Remove duplicate files. This can accomplish a large performance gain in some copy operations -->
<Output TaskParameter="OutputItems" Item />
<Message Text="Full File List contains: %(DuplicateFiles.Identity)"
<!-- Get the number of items in a collection -->
<Output TaskParameter="ItemCount" Proper />
<Message Text="$(MyCount)"/>
<!-- Convert a separated list to an ItemGroup -->
<Output TaskParameter="OutputItems" Item />
<Message Text="String Item Collection contains: %(NewCol1.Identity)"
</Target>
<Target Name="UpdateMetadata">
<!-- This sample uses the UpdateMetadata Task -->
<ItemGroup>
  <SolutionToBuild Include="$(BuildProjectFolderPath)ChangeThisOne.sln"
  <Meta1>OriginalValue</Meta1>
</SolutionToBuild>
  <SolutionToBuild Include="$(BuildProjectFolderPath)ChangeThisToo.sln"
  <Meta1>OriginalValue</Meta1>
  <Meta2>Mike</Meta2>
</SolutionToBuild>
</ItemGroup>
<Message Text="Before = %(SolutionToBuild.Identity) %(SolutionToBuild.Meta1) %(SolutionToBuild.Meta2)"
<ItemGroup>
  <ItemsToChange Include="@(SolutionToBuild)"
  <Meta1>ChangedValue</Meta1>
  <Meta2>Dave</Meta2>
</ItemsToChange>
</ItemGroup>
<Output TaskParameter="OutputItems" Item
<ItemGroup>
  <SolutionToBuild Remove="@(SolutionToBuild)
  <SolutionToBuild Include="@(SolutionToBuild)
</ItemGroup>
  <Message Text="After  = @(SolutionToBuild.Identity)"
</Target>
<ItemGroup>
  <MyItems Include="$(AssembliesPath)\Assembly1"
  <Roles>Role1</Roles>
  <GAC>true</GAC>
</MyItems>
  <MyItems Include="$(AssembliesPath)\Assembly2"
  <Roles>Role2</Roles>
  <GAC>true</GAC>
</MyItems>
  <MyItems Include="$(AssembliesPath)\Assembly2"
  <Roles>Role2</Roles>
  <GAC>false</GAC>
</MyItems>
  <Roles Include="Role2;Role1"/>
</ItemGroup>
<Target Name="FilterItemsOnMetadata" DependsOnTargets
  <Message Text="1 = @(MyItemsWorkingSet.Identity)"
</Target>
<Target Name="GetWorkingSets">
  <Output TaskParameter="OutputItems" Item
</Target>
</Project>

See Also
Reference
MSBuild.ExtensionPack.Framework Namespace

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MSBuildHelper Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
MSBuildHelper Class
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
MSBuildHelper Properties

The MSBuildHelper type exposes the following members.

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CurrentDirectory</td>
<td>Gets the current directory</td>
</tr>
<tr>
<td>InputItems1</td>
<td>Sets InputItems1.</td>
</tr>
<tr>
<td>InputItems2</td>
<td>Sets InputItems2.</td>
</tr>
<tr>
<td>InString</td>
<td>Sets the input string</td>
</tr>
<tr>
<td>ItemCount</td>
<td>Gets the ItemCount.</td>
</tr>
<tr>
<td>ItemString</td>
<td>Sets the string to convert to a Task Item</td>
</tr>
<tr>
<td>Metadata</td>
<td>Sets the Metadata</td>
</tr>
<tr>
<td>OutputItems</td>
<td>Gets the OutputItems.</td>
</tr>
<tr>
<td>OutString</td>
<td>Gets the output string</td>
</tr>
<tr>
<td>Position</td>
<td>Sets the position of the Item to get</td>
</tr>
<tr>
<td>RegexPattern</td>
<td>Sets the regex pattern.</td>
</tr>
<tr>
<td>Separator</td>
<td>Sets the separator to use for splitting the ItemString when calling StringToItemCol. Also used in FilterItemsOnMetadata</td>
</tr>
</tbody>
</table>

See Also

Reference

MSBuildHelper Class
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**MSBuildHelperCurrentDirectory Property**

Gets the current directory

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

---

**See Also**

**Reference**

- MSBuildHelper Class

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**MSBuildHelperInputItems1 Property**

Sets InputItems1.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

- Reference  
  - MSBuildHelper Class  

---

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**MSBuildHelperInputItems2**  
Property

Sets InputItems2.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

- **Reference**
  - MSBuildHelper Class

---

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**MSBuildHelperInString**

**Property**

Sets the input string

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

---

**See Also**

**Reference**

MSBuildHelper Class

MSBuild.ExtensionPack.Framework Namespace

---

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MSBuildHelperItemCount Property

Gets the ItemCount.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

MSBuildHelper Class  
MSBuild.ExtensionPack.Framework Namespace

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MSBuildHelperItemString Property

Sets the string to convert to a Task Item

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
MSBuildHelper Class
MSBuild.ExtensionPack.Framework Namespace

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**MSBuildHelperMetadata Property**

Sets the Metadata

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

MSBuildHelper Class  
MSBuild.ExtensionPack.Framework Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
### MSBuildHelper.OutputItems Property

Gets the OutputItems.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

### See Also

**Reference**  
MSBuildHelper Class  
MSBuild.ExtensionPack.Framework Namespace

---

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**MSBuildHelper**

**OutString Property**

Gets the output string

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

Reference

- MSBuildHelper Class

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**MSBuildHelperPosition Property**

Sets the position of the Item to get

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

- MSBuildHelper Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**MSBuildHelperRegexPattern**    
**Property**

Sets the regex pattern.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

MSBuildHelper Class  
MSBuild.ExtensionPack.Framework Namespace

---

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MSBuildHelperSeparator Property

Sets the separator to use for splitting the ItemString when calling StringToItemCol. Also used in FilterItemsOnMetadata.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
MSBuildHelper Class
MSBuild.ExtensionPack.Framework Namespace

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**Parallel Class**

**Valid TaskActions are:**


**Remote Execution Support:** NA

**Inheritance Hierarchy**

SystemObject  Microsoft.Build.UtilitiesTask
   MSBuild.ExtensionPackBaseTask
       MSBuild.ExtensionPack.FrameworkParallel

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The **Parallel** type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>☢️ Parallel</td>
<td></td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>☢️ AdditionalProperties</td>
<td>Specifies additional properties to pass through to the new parallel instances of MSBuild.</td>
</tr>
<tr>
<td>☢️ MaxCpuCount</td>
<td>Specifies the maximum number of concurrent processes to use when building. Use this with MultiProc parameter. Default is 0.</td>
</tr>
</tbody>
</table>
MultiLog
Specifies whether each parallel execution should log to it's own log file rather than the parent. Default is false. For BuildTargetsInParallel you can specify a LogFilePath metadata value to define the root path to log to, otherwise they are written to the directory of the calling project. The name of the target is used as the file name. For BuildTargetSetsInParallel you can specify a LogFilePath and a LogFileName metadata value. If LogFileName is not passed, the target name is used.

MultiLogAppend
Specifies whether to append to existing log files. Default is false

MultiLogOpenOnFailure
Specifies whether to open the log file containing the error info on failure. Default is false

MultiLogResponseVerbosity
Specifies the verbosity of logging fed back to the calling task. Default is Minimal

MultiLogVerbosity
Specifies the verbosity to log to the individual files with. Default is Diagnostic. Note this is case sensitive.

MultiProc
Specifies whether or not to use the /m multiproc parameter. If you include this switch without specifying a value for MaxCpuCount, MSBuild will use up to the number of processors in the computer. Default is false.

NodeReuse
Enable or disable the re-use of MSBuild nodes when using MultiProc. Default is false

ProjectFile
Specifies the MSBuild project to use. Defaults to the calling MSBuild file.

Targets
Specifies the Targets to execute. Properties and Targets metadata can be set depending on the TaskAction. See the samples.

WaitAll
Specifies whether to wait for all Targets to complete execution before returning to MSBuild or whether to wait for all to complete. Default is true.

WorkingDirectory
Specifies the working directory. Default is null and MSBuild is resolved to the Path environment variable.

---

**Examples**

```xml
<Project ToolsVersion="4.0" InitialTargets="Throttle">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\..\MSBuild</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\..\Common\MSBuild.ExtensionPack.tasks')">$(MSBuildProjectDirectory)\..\..\Common\MSBuild.ExtensionPack.tasks</TPath>
  </PropertyGroup>
</Project>
```
<PropertyGroup>
  <Import Project="$(TPath)"/>
  <ItemGroup>
    <MyTargetSets Include="1">
      <LogFilePath>C:\b</LogFilePath>
      <LogFileName>Target1yahoo.txt</LogFileName>
      <Targets>Target1;Target2</Targets>
      <Properties>MyPropValue=MyPropValue1</Properties>
    </MyTargetSets>
    <MyTargetSets Include="2">
      <Targets>Target3</Targets>
    </MyTargetSets>
    <MyTargets Include="Target1">
      <Properties>MyPropValue=MyPropValue1</Properties>
    </MyTargets>
    <MyTargets Include="Target2;Target3">
      <LogFilePath>C:\b</LogFilePath>
    </MyTargets>
  </ItemGroup>
  <Target Name="Normal" DependsOnTargets="Target1;Target2;Target3">
  </Target>
  <Target Name="BuildTargetSetsInParallel">
  </Target>
  <Target Name="BuildTargetsInParallel">
  </Target>
  <Target Name="Target1">
      <Message Text="MyPropValue = $(MyPropValue)" />
    </Target>
  </Target>
  <Target Name="Target2">
  </Target>
  <Target Name="Target3">
  </Target>
  <Target Name="Throttle" Condition="$(SkipInitial) != 'true'">
  </Target>
</PropertyGroup>
Parallel Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Parallel Class
MSBuild.ExtensionPack.Framework Namespace

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The `Parallel` type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AdditionalProperties</td>
<td>Specifies additional properties to pass through to the new parallel instances of MSBuild.</td>
</tr>
<tr>
<td>MaxCpuCount</td>
<td>Specifies the maximum number of concurrent processes to use when building. Use this with MultiProc parameter. Default is 0.</td>
</tr>
<tr>
<td>MultiLog</td>
<td>Specifies whether each parallel execution should log to it's own log file rather than the parent. Default is false. For BuildTargetsInParallel you can specify a LogFilePath metadata value to define the root path to log to, otherwise they are written to the directory of the calling project. The name of the target is used as the file name. For BuildTargetSetsInParallel you can specify a LogFilePath and a LogFileName metadata value. If LogFileName is not passed, the target name is used.</td>
</tr>
<tr>
<td>MultiLogAppend</td>
<td>Specifies whether to append to existing log files. Default is false</td>
</tr>
<tr>
<td>MultiLogOpenOnFailure</td>
<td>Specifies whether to open the log file containing the error info on failure. Default is false</td>
</tr>
<tr>
<td>MultiLogResponseVerbosity</td>
<td>Specifies the verbosity of logging fed back to the calling task. Default is Minimal</td>
</tr>
<tr>
<td>MultiLogVerbosity</td>
<td>Specifies the verbosity to log to the individual files with. Default is Diagnostic. Note this is case sensitive.</td>
</tr>
<tr>
<td>MultiProc</td>
<td>Specifies whether or not to use the /m multiproc parameter. If you include this switch without specifying a value for MaxCpuCount, MSBuild will use up to the number of processors in the computer. Default is false.</td>
</tr>
<tr>
<td>NodeReuse</td>
<td>Enable or disable the re-use of MSBuild nodes when using MultiProc. Default is false</td>
</tr>
<tr>
<td>ProjectFile</td>
<td>Specifies the MSBuild project to use. Defaults to the calling MSBuild file.</td>
</tr>
<tr>
<td>Targets</td>
<td>Specifies the Targets to execute. Properties and Targets metadata can be set depending on the TaskAction. See the samples.</td>
</tr>
<tr>
<td>WaitAll</td>
<td>Specifies whether to wait for all Targets to complete execution before returning to MSBuild or whether to wait for all to state.</td>
</tr>
</tbody>
</table>
See Also

| WorkingDirectory | Specifies the working directory. Default is null and MSBuild is resolved to the Path environment variable. |

Top

See Also

Reference

Parallel Class

MSBuild.ExtensionPack.Framework Namespace

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ParallelAdditionalProperties Property

Specifies additional properties to pass through to the new parallel instances of MSBuild.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Parallel Class
MSBuild.ExtensionPack.Framework Namespace

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**ParallelMaxCpuCount Property**

Specifies the maximum number of concurrent processes to use when building. Use this with MultiProc parameter. Default is 0.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

*Reference*

Parallel Class  
MSBuild.ExtensionPack.Framework Namespace
**ParallelMultiLog Property**

Specifies whether each parallel execution should log to its own log file rather than the parent. Default is false. For BuildTargetsInParallel you can specify a LogFilePath metadata value to define the root path to log to, otherwise they are written to the directory of the calling project. The name of the target is used as the file name. For BuildTargetSetsInParallel you can specify a LogFilePath and a LogFileName metadata value. If LogFileName is not passed, the target name is used.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
Parallel Class  
MSBuild.ExtensionPack.Framework Namespace

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ParallelMultiLogAppend Property

Specifies whether to append to existing log files. Default is false

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Parallel Class
MSBuild.ExtensionPack.Framework Namespace

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**ParallelMultiLogOpenOnFailure**

Specifies whether to open the log file containing the error info on failure. Default is false.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference  
Parallel Class  
MSBuild.ExtensionPack.Framework Namespace

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ParallelMultiLogResponseVerbosity Property

Specifies the verbosity of logging fed back to the calling task. Default is Minimal

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Parallel Class
MSBuild.ExtensionPack.Framework Namespace

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**ParallelMultiLogVerbosity Property**

Specifies the verbosity to log to the individual files with. Default is Diagnostic. Note this is case sensitive.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
Parallel Class  
MSBuild.ExtensionPack.Framework Namespace

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**ParallelMultiProc Property**

Specifies whether or not to use the /m multiproc parameter. If you include this switch without specifying a value for MaxCpuCount, MSBuild will use up to the number of processors in the computer. Default is false.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

Parallel Class

MSBuild.ExtensionPack.Framework Namespace

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**ParallelNodeReuse Property**

Enable or disable the re-use of MSBuild nodes when using MultiProc. Default is false

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

- **Reference**
  - Parallel Class

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
ParallelProjectFile Property

Specifies the MSBuild project to use. Defaults to the calling MSBuild file.

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  Version: 4.0.0.0

---

**See Also**

**Reference**

- Parallel Class

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**ParallelTargets Property**  MSBuild Extension Pack Help 4.0.12.0

Specifies the Targets to execute. Properties and Targets metadata can be set depending on the TaskAction. See the samples.

**Namespace:**  MSBuild.ExtensionPack.Framework  
**Assembly:**  MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:**  4.0.0.0

**See Also**

**Reference**

Parallel Class  
MSBuild.ExtensionPack.Framework Namespace

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**ParallelWaitAll Property**  MSBuild Extension Pack Help 4.0.12.0

Specifies whether to wait for all Targets to complete execution before returning to MSBuild or whether to wait for all to complete. Default is true.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**  
Parallel Class  
MSBuild.ExtensionPack.Framework Namespace

---

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Send comments on this topic to [MSBuild ExtensionPack Feedback](mailto:MSBuildExtensionPackFeedback@MSBuild.com)
ParallelWorkingDirectory Property

Specifies the working directory. Default is null and MSBuild is resolved to the Path environment variable.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Parallel Class
MSBuild.ExtensionPack.Framework Namespace

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Path Class

Valid TaskActions are:

ChangeExtension (Required: Filepath, Extension Output: Value)

Combine (Required: Filepath, Filepath2 Output: Value)

GetDirectoryName (Required: Filepath Output: Value)

GetExtension (Required: Filepath Output: Value)

GetFileName (Required: Filepath Output: Value)

GetFileNameWithoutExtension (Required: Filepath Output: Value)

GetFullPath (Required: Filepath Output: Value)

GetPathRoot (Required: Filepath Output: Value)

GetRandomFileName (Output: Value)

GetTempPath (Output: Value)

HasExtension (Required: Filepath Output: Value)

IsPathRooted (Required: Filepath Output: Value)

Remote Execution Support: NA

Inheritance Hierarchy

SystemObject  Microsoft.Build.UtilitiesTask
  MSBuild.ExtensionPackBaseTask
  MSBuild.ExtensionPack.FrameworkPath

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The Path type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Path</td>
<td></td>
</tr>
</tbody>
</table>
### Fields

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ChangeExtensionTaskAction</td>
<td></td>
</tr>
<tr>
<td>CombineTaskAction</td>
<td></td>
</tr>
<tr>
<td>GetDirectoryNameTaskAction</td>
<td></td>
</tr>
<tr>
<td>GetExtensionTaskAction</td>
<td></td>
</tr>
<tr>
<td>GetFileNameTaskAction</td>
<td></td>
</tr>
<tr>
<td>GetFileNameWithoutExtensionTaskAction</td>
<td></td>
</tr>
<tr>
<td>GetFullPathTaskAction</td>
<td></td>
</tr>
<tr>
<td>GetPathRootTaskAction</td>
<td></td>
</tr>
<tr>
<td>GetRandomFileNameTaskAction</td>
<td></td>
</tr>
<tr>
<td>GetTempPathTaskAction</td>
<td></td>
</tr>
<tr>
<td>HasExtensionTaskAction</td>
<td></td>
</tr>
<tr>
<td>IsPathRootedTaskAction</td>
<td></td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extension</td>
<td>The file extension to use for the ChangeExtension task</td>
</tr>
<tr>
<td>Filepath</td>
<td>The file path to use</td>
</tr>
<tr>
<td>Filepath2</td>
<td>The file path to use for the second filepath parameter for the Combine task</td>
</tr>
<tr>
<td>Value</td>
<td>Gets value returned from the invoked Path method</td>
</tr>
</tbody>
</table>

### Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"/>
```
<PropertyGroup>
  <TPath>$(MSBuildProjectDirectory)\.\MSBuild.ExtensionPack.tasks</TPath>
  <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\..\Common\MSBuild.ExtensionPack.tasks')" />
</PropertyGroup>

<Import Project="$(TPath)"/>
<Target Name="Default">
  <Message Text="NewFilename = $(NewFilename)" />
  <Message Text="CombinedFilename = $(CombinedFilename)" />
  <Message Text="JustTheDirectory = $(JustTheDirectory)" />
  <Message Text="JustTheExtension = $(JustTheExtension)" />
  <Message Text="JustTheFilename = $(JustTheFilename)" />
  <MSBuild.ExtensionPack.Framework.Path TaskAction="Value" PropertyName="FullPath" />
  <Message Text="FullPath = $(FullPath)" />
  <MSBuild.ExtensionPack.Framework.Path TaskAction="Value" PropertyName="PathRoot" />
  <Message Text="PathRoot = $(PathRoot)" />
</Target>
<Output TaskParameter="Value" PropertyNa>
<Message Text="RandomFilename = $(RandomFilename)"
<Output TaskParameter="Value" PropertyNa>
<Message Text="TempPath = $(TempPath)"/>
<Output TaskParameter="Value" PropertyNa>
<Message Text="FileHasAnExtension = $(FileHasAnExtension)"
<Output TaskParameter="Value" PropertyNa>
<Message Text="FileIsRooted = $(FileIsRooted)"
</Target>
</Project>

See Also

Reference
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
Path Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Path Class
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**Path Fields**

The **Path** type exposes the following members.

### Fields

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ChangeExtensionTaskAction</td>
<td></td>
</tr>
<tr>
<td>CombineTaskAction</td>
<td></td>
</tr>
<tr>
<td>GetDirectoryNameTaskAction</td>
<td></td>
</tr>
<tr>
<td>GetExtensionTaskAction</td>
<td></td>
</tr>
<tr>
<td>GetFileNameTaskAction</td>
<td></td>
</tr>
<tr>
<td>GetFileNameWithoutExtensionTaskAction</td>
<td></td>
</tr>
<tr>
<td>GetFullPathTaskAction</td>
<td></td>
</tr>
<tr>
<td>GetPathRootTaskAction</td>
<td></td>
</tr>
<tr>
<td>GetRandomFileNameTaskAction</td>
<td></td>
</tr>
<tr>
<td>GetTempPathTaskAction</td>
<td></td>
</tr>
<tr>
<td>HasExtensionTaskAction</td>
<td></td>
</tr>
<tr>
<td>IsPathRootedTaskAction</td>
<td></td>
</tr>
</tbody>
</table>

### See Also

**Reference**
- **Path Class**
- **MSBuild.ExtensionPack.Framework Namespace**

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Send comments on this topic to MSBuild ExtensionPack Feedback
**PathChangeExtensionTaskAction**

Field

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

Path Class  
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
PathCombineTaskAction Field

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

### See Also

Reference

- Path Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
PathDirectoryNameTaskAction MSBuild Extension Pack Help 4.0.12.0

Field

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Path Class
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
PathGetExtensionTaskAction

Field

**Namespace:**  MSBuild.ExtensionPack.Framework

**Assembly:**  MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

**See Also**

Reference

Path Class

MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
PathGetFileNameTaskAction  

**Field**

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
Path Class  
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
PathGetFileNameWithoutExtensionTaskAction Field

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Path Class
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
PathGetFullPathTaskAction

Field

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Path Class
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
PathGetPathRootTaskAction

Field

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Path Class
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
PathGetRandomFileNameTaskAction

Field

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Path Class
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
PathGetTempPathTaskAction  MSBuild Extension Pack Help  4.0.12.0

**Field**

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**

Path Class  
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
PathHasExtensionTaskAction

Field

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Path Class
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**PathIsPathRootedTaskAction**

Field

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Path Class
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
The **Path** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extension</td>
<td>The file extension to use for the ChangeExtension task</td>
</tr>
<tr>
<td>Filepath</td>
<td>The file path to use</td>
</tr>
<tr>
<td>Filepath2</td>
<td>The file path to use for the second filepath parameter for the Combine task</td>
</tr>
<tr>
<td>Value</td>
<td>Gets value returned from the invoked Path method</td>
</tr>
</tbody>
</table>

## See Also

Reference

**Path Class**

**MSBuild.ExtensionPack.Framework Namespace**

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Send comments on this topic to [MSBuild ExtensionPack Feedback](mailto:feedback@msbuildextensionpack.com)
**PathExtension Property**  MSBuild Extension Pack Help 4.0.12.0

The file extension to use for the ChangeExtension task

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

- Path Class

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PathFilepath Property

The file path to use

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Path Class
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**PathFilepath2 Property**  
MSBuild Extension Pack Help 4.0.12.0

The file path to use for the second filepath parameter for the Combine task

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

Reference
Path Class
**MSBuild.ExtensionPack.Framework Namespace**

---

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PathValue Property

Gets value returned from the invoked Path method

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
- Path Class

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Signing Class

Valid TaskActions are:

AddSkipVerification (Required: PublicKeyToken Optional: ToolPath)

RemoveAllSkipVerification (Optional: ToolPath)

Sign (Required: Assemblies, KeyFile Optional: ToolPath)

Remote Execution Support: NA

Inheritance Hierarchy

SystemObject Microsoft.Build.UtilitiesTask
    MSBuild.ExtensionPackBaseTask
    MSBuild.ExtensionPack.FrameworkSigning

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The Signing type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signing</td>
<td></td>
</tr>
</tbody>
</table>

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assemblies</td>
<td>Sets the Item Collection of Assemblies to sign</td>
</tr>
<tr>
<td>KeyFile</td>
<td>Sets the KeyFile to use when Signing the Assemblies</td>
</tr>
<tr>
<td>PublicKeyToken</td>
<td>Sets the PublicKeyToken for AddSkipVerification</td>
</tr>
<tr>
<td>ToolPath</td>
<td>Sets the folder path to sn.exe</td>
</tr>
</tbody>
</table>
Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"
    <PropertyGroup>
        <TPath>$(MSBuildProjectDirectory)\..\MSBuildExtensionPack.Tasks</TPath>
        <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\.Common\MSBuild.ExtensionPack.Tasks')" />
    </PropertyGroup>
    <Import Project="$\{TPath\}" />
    <Target Name="Default">
        <ItemGroup>
            <AssemblyToSign Include="C:\AnAssembly.dll" />
        </ItemGroup>
        <!-- Sign an assembly -->
        <!-- Add SkipVerification for a public key -->
        <!-- Remove all SkipVerification -->
    </Target>
</Project>
```

See Also

Reference

MSBuild.ExtensionPack.Framework Namespace

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See Also

Reference

Signing Class
MSBuild.ExtensionPack.Framework Namespace

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**Signing Properties**

The **Signing** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assemblies</td>
<td>Sets the Item Collection of Assemblies to sign</td>
</tr>
<tr>
<td>KeyFile</td>
<td>Sets the KeyFile to use when Signing the Assemblies</td>
</tr>
<tr>
<td>PublicKeyToken</td>
<td>Sets the PublicKeyToken for AddSkipVerification</td>
</tr>
<tr>
<td>ToolPath</td>
<td>Sets the folder path to sn.exe</td>
</tr>
</tbody>
</table>

---

**See Also**

**Reference**

**Signing Class**

**MSBuild.ExtensionPack.Framework Namespace**

---

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Send comments on this topic to [MSBuild ExtensionPack Feedback](mailto:msbuild-feedback@msbuildextensionpack.com)
SigningAssemblies Property

Sets the Item Collection of Assemblies to sign

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Signing Class
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**SigningKeyFile Property**  MSBuild Extension Pack Help 4.0.12.0

Sets the KeyFile to use when Signing the Assemblies

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

Signing Class  
MSBuild.ExtensionPack.Framework Namespace

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SigningPublicKeyToken Property

Sets the PublicKeyToken for AddSkipVerification

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Signing Class
MSBuild.ExtensionPack.Framework Namespace

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See Also

Reference
- Signing Class

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**SmartExec Class**

Runs a specified program or command without blocking the UI. This is similar to the Exec Task: http://msdn.microsoft.com/en-us/library/x8zx72cd.aspx.

This task is useful when you need to run a long command-line task during the build process.

**Inheritance Hierarchy**

- `SystemObject`
- `System.MarshalByRefObject`

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The `SmartExec` type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="smartexec_icon.png" alt="SmartExec" /></td>
<td>SmartExec</td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="command_icon.png" alt="Command" /> Command</td>
<td>Gets or sets the command(s) to run. These can be system commands, such as <code>attrib</code>, or an executable, such as <code>program.exe</code>, <code>runprogram.bat</code>, or <code>setup.msi</code>. This parameter can contain multiple lines of commands (each command on a new-line). Alternatively, you can place multiple commands in a batch file and run it using this parameter.</td>
</tr>
<tr>
<td><img src="ignore_icon.png" alt="IgnoreExitCode" /> IgnoreExitCode</td>
<td>Gets or sets a value indicating whether to ignore the command exit code. If true, the task ignores the exit code provided by the executed command. Otherwise, the task returns false if the executed command returns an exit code that does not match <code>SuccessExitCode</code>.</td>
</tr>
<tr>
<td><img src="success_icon.png" alt="SuccessExitCode" /> SuccessExitCode</td>
<td>Gets or sets the success exit code for the command. Default is zero (0).</td>
</tr>
</tbody>
</table>
<Project ToolsVersion="3.5" DefaultTargets="Default">
    <PropertyGroup>
        <TPath>$(MSBuildProjectDirectory)\.\MSBuild.ExtensionPack.tasks</TPath>
        <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\.Common\MSBuild.ExtensionPack.tasks')"></TPath>
    </PropertyGroup>
    <Import Project="$(TPath)"/>
    <Target Name="Default">
        <MSBuild.ExtensionPack.Framework.SmartExec Comma>
        <MSBuild.ExtensionPack.Framework.SmartExec Comma>
    </Target>
</Project>

See Also
Reference
MSBuild.ExtensionPack.Framework Namespace

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**SmartExec Constructor**  
MSBuild Extension Pack Help 4.0.12.0

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
Version: 4.0.0.0

**See Also**

Reference

- SmartExec Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
The **SmartExec** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Command</strong></td>
<td>Gets or sets the command(s) to run. These can be system commands, such as <code>attrib</code>, or an executable, such as <code>program.exe</code>, <code>runprogram.bat</code>, or <code>setup.msi</code>. This parameter can contain multiple lines of commands (each command on a new-line). Alternatively, you can place multiple commands in a batch file and run it using this parameter.</td>
</tr>
<tr>
<td><strong>IgnoreExitCode</strong></td>
<td>Gets or sets a value indicating whether to ignore the command exit code. If true, the task ignores the exit code provided by the executed command. Otherwise, the task returns false if the executed command returns an exit code that does not match <strong>SuccessExitCode</strong>.</td>
</tr>
<tr>
<td><strong>SuccessExitCode</strong></td>
<td>Gets or sets the success exit code for the command. Default is zero (0).</td>
</tr>
</tbody>
</table>

**See Also**

**Reference**

- **SmartExec Class**
- **MSBuild.ExtensionPack.Framework Namespace**

---

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See Also

Reference
SmartExec Class
MSBuild.ExtensionPack.Framework Namespace

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SmartExecIgnoreExitCode Property

Gets or sets a value indicating whether to ignore the command exit code. If true, the task ignores the exit code provided by the executed command. Otherwise, the task returns false if the executed command returns an exit code that does not match SuccessExitCode.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

Remarks
Exec Equivalent: IgnoreExitCode

See Also

Reference
SmartExec Class
MSBuild.ExtensionPack.Framework Namespace

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**SmartExecSuccessExitCode Property**

Gets or sets the success exit code for the command. Default is zero (0).

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**Remarks**

No Exec Equivalent

---

**See Also**

**Reference**

SmartExec Class  
MSBuild.ExtensionPack.Framework Namespace

---

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TextString Class

Valid TaskActions are:

* **Compare** *(Required: String1, String2, Comparison Optional: IgnoreCase Output: Result)*

* **EndsWith** *(Required: String1, String2 Optional: IgnoreCase Output: Result)*

* **Format** *(Required: String1, Strings Output: NewString)*

* **GetLength** *(Required: OldString Output: NewString)*

* **Insert** *(Required: OldString, String1, StartIndex Output: NewString)*

* **PadLeft** *(Required: OldString, String1 (1 char) Optional: Count Output: NewString)*

* **PadRight** *(Required: OldString, String1 (1 char) Optional: Count Output: NewString)*

* **Remove** *(Required: OldString, StartIndex Optional: Count Output: NewString)*

* **Replace** *(Required: OldString, OldValue, NewValue Output: NewString)*

* **Split** *(Required: String1, String2 Optional: StartIndex Output: Strings, NewString)*

* **StartsWith** *(Required: String1, String2 Optional: IgnoreCase Output: Result)*

* **Substring** *(Required: OldString Optional: StartIndex, Count Output: NewString)*

* **ToLower** *(Required: OldString Output: NewString)*

* **ToUpper** *(Required: OldString Output: NewString)*

* **Trim** *(Required: OldString Output: NewString)*

Remote Execution Support: NA

Inheritance Hierarchy

SystemObject Microsoft.Build.UtilitiesTask
The `TextString` type exposes the following members.

## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TextString</td>
<td></td>
</tr>
</tbody>
</table>

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comparison</td>
<td>Sets the Comparison. Supports 'GreaterThan', 'LessThan', 'GreaterThanOrEquals', 'LessThanOrEquals', 'Contains', 'StartsWith', 'EndsWith'</td>
</tr>
<tr>
<td>Count</td>
<td>Sets the count</td>
</tr>
<tr>
<td>IgnoreCase</td>
<td>Sets a value indicating whether [ignore case]. Default is true.</td>
</tr>
<tr>
<td>NewString</td>
<td>Gets the new string</td>
</tr>
<tr>
<td>NewValue</td>
<td>Sets the new value</td>
</tr>
<tr>
<td>OldString</td>
<td>Sets the old string</td>
</tr>
<tr>
<td>oldValue</td>
<td>Sets the old value</td>
</tr>
<tr>
<td>Result</td>
<td>Gets a value indicating whether the result is true or false.</td>
</tr>
<tr>
<td>startIndex</td>
<td>Sets the start index for Remove</td>
</tr>
<tr>
<td>String1</td>
<td>Sets the string1</td>
</tr>
<tr>
<td>String2</td>
<td>Sets the string2</td>
</tr>
<tr>
<td>Strings</td>
<td></td>
</tr>
</tbody>
</table>
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks')"/>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- Format a string -->
      <Output TaskParameter="NewString"/>
    <Message Text="Format Result: $(val)"/>
    <!-- Split a string -->
      <Output ItemName="out" TaskParameter="Strings"/>
    <Message Text="The Result: %(Out.Identity)"/>
    <!-- Split another string -->
      <Output ItemName="out" TaskParameter="Strings"/>
    <Message Text="The Result: %(Out.Identity)"/>
    <!-- Uppercase a string -->
      <Output PropertyName="out" TaskParameter=""/>
    <Message Text="The Result: $(out)"/>
    <!-- Lowercase a string -->
      <Output PropertyName="out" TaskParameter=""/>
    <Message Text="The Result: $(out)"/>
    <!-- PadLeft a string -->
      <Output PropertyName="out" TaskParameter=""/>
    <Message Text="The Result: $(out)"/>
    <!-- PadRight a string -->
      <Output PropertyName="out" TaskParameter=""/>
    <Message Text="The Result: $(out)"/>
  </Target>
</Project>
<Output PropertyName="out" TaskParameter/>
<Message Text="The Result: $(out)"/>
<!-- Check whether a string starts with a string. -->
<Output PropertyName="TheResult" TaskParameter/>
<Message Text="The Result: $(TheResult)"/>
<!-- Check whether a string ends with a string. -->
<Output PropertyName="TheResult" TaskParameter/>
<Message Text="The Result: $(TheResult)"/>
<!-- Compare two strings to see whether they are equal. -->
<Output PropertyName="TheResult" TaskParameter/>
<Message Text="The Result: $(TheResult)"/>
<!-- See whether one string is greater than another string. -->
<Output PropertyName="TheResult" TaskParameter/>
<Message Text="The Result: $(TheResult)"/>
<!-- See whether one string is less than another string. -->
<Output PropertyName="TheResult" TaskParameter/>
<Message Text="The Result: $(TheResult)"/>
<!-- See whether a string contains another string. -->
<Output PropertyName="TheResult" TaskParameter/>
<Message Text="The Result: $(TheResult)"/>
<!-- Replace the contents of a string. -->
<Output PropertyName="TheResult" TaskParameter/>
<Message Text="The Result: $(TheResult)"/>
  <Output PropertyName="out" TaskParameter="out"/>
<Message Text="The Result: $(out)"/>

<!-- Substring the contents of a string -->
  <Output PropertyName="out" TaskParameter="out"/>
<Message Text="The Result: $(out)"/>
</Target>
</Project>

See Also

Reference

MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TextString Constructor**  MSBuild Extension Pack Help 4.0.12.0

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

- TextString Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
The **TextString** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Comparison</strong></td>
<td>Sets the Comparison. Supports 'GreaterThan', 'LessThan', 'GreaterThanOrEquals', 'LessThanOrEquals', 'Contains', 'StartsWith', 'EndsWith'</td>
</tr>
<tr>
<td><strong>Count</strong></td>
<td>Sets the count</td>
</tr>
<tr>
<td><strong>IgnoreCase</strong></td>
<td>Sets a value indicating whether [ignore case]. Default is true.</td>
</tr>
<tr>
<td><strong>NewString</strong></td>
<td>Gets the new string.</td>
</tr>
<tr>
<td><strong>NewValue</strong></td>
<td>Sets the new value.</td>
</tr>
<tr>
<td><strong>OldString</strong></td>
<td>Sets the old string.</td>
</tr>
<tr>
<td><strong>OldValue</strong></td>
<td>Sets the old value.</td>
</tr>
<tr>
<td><strong>Result</strong></td>
<td>Gets a value indicating whether the result is true or false.</td>
</tr>
<tr>
<td><strong>StartIndex</strong></td>
<td>Sets the start index for Remove</td>
</tr>
<tr>
<td><strong>String1</strong></td>
<td>Sets the string1.</td>
</tr>
<tr>
<td><strong>String2</strong></td>
<td>Sets the string2.</td>
</tr>
<tr>
<td><strong>Strings</strong></td>
<td></td>
</tr>
</tbody>
</table>

## See Also

**Reference**

**TextString Class**

**MSBuild.ExtensionPack.Framework Namespace**

---

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Send comments on this topic to [MSBuild ExtensionPack Feedback](mailto:MSBuildExtensionPackFeedback)
**TextStringComparison Property**

Sets the Comparison. Supports 'Greater Than', 'Less Than', 'Greater Than Or Equal', 'Less Than Or Equal', 'Contains', 'Starts With', 'Ends With'

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

---

**See Also**

**Reference**

*TextString Class*

*MSBuild.ExtensionPack.Framework Namespace*

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TextStringCount Property**

Sets the count

**Namespace**: MSBuild.ExtensionPack.Framework  
**Assembly**: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version**: 4.0.0.0

---

**See Also**

**Reference**

**TextString Class**  
**MSBuild.ExtensionPack.Framework Namespace**

---

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**TextStringIgnoreCase Property**

Sets a value indicating whether [ignore case]. Default is true.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

- TextString Class  

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TextString-NewString**

**Property**

Gets the new string.

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

**Reference**

TextString Class

MSBuild.ExtensionPack.Framework Namespace

---

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**TextStringNewValue**

Property

Sets the new value.

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
Version: 4.0.0.0

---

**See Also**

Reference

**TextString Class**

**MSBuild.ExtensionPack.Framework Namespace**

---

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**TextStringOldString Property**

Sets the old string.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**

TextString Class  
MSBuild.ExtensionPack.Framework Namespace

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**TextStringOldValue Property**

Sets the old value.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

- TextString Class  

---

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**TextStringResult Property**

Gets a value indicating whether the result is true or false.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**  
TextString Class  
MSBuild.ExtensionPack.Framework Namespace

---

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**TextStringStartIndex**

**Property**

Sets the start index for Remove

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

TextString Class  
MSBuild.ExtensionPack.Framework Namespace

---

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**TextString**

### Property

Sets the string1.

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**

- TextString Class

---

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TextString\text{String2}

Property

Sets the string2.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

TextString Class
MSBuild.ExtensionPack.Framework Namespace

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TextStringStrings Property


See Also

Reference

TextString Class
MSBuild.ExtensionPack.Framework Namespace

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**Thread Class**

**Valid TaskActions are:**

*Abort* (Warning: use only in exceptional circumstances to force an abort)

*Sleep* (**Required**: Timeout)

*SpinWait* (**Required**: Iterations)

**Remote Execution Support**: NA

**Inheritance Hierarchy**

```
SystemObject  Microsoft.Build.UtilitiesTask
    MSBuild.ExtensionPackBaseTask
    MSBuild.ExtensionPack.FrameworkThread
```

**Namespace**: MSBuild.ExtensionPack.Framework

**Assembly**: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version**: 4.0.0.0

The **Thread** type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thread</td>
<td></td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iterations</td>
<td>Number of iterations to wait for</td>
</tr>
<tr>
<td>Timeout</td>
<td>Number of milliseconds to sleep for</td>
</tr>
</tbody>
</table>

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"/>
```
<PropertyGroup>
  <TPath>$(MSBuildProjectDirectory)\.\.\MSBuild</TPath>
  <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\.\Common\MSBuild.ExtensionPack.tasks')"/>
</PropertyGroup>

<Import Project="$\(TPath)"/>

<Target Name="Default">
  <!-- Set a thread to sleep for a period -->

  <!-- Set a thread to spinwait for a period -->

  <!-- Abort a thread. Only use in exceptional situations -->
</Target>
</Project>

See Also

Reference

MSBuild.ExtensionPack.Framework Namespace

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Thread Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Thread Class
MSBuild.ExtensionPack.Framework Namespace

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Thread Properties

The Thread type exposes the following members.

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iterations</td>
<td>Number of iterations to wait for</td>
</tr>
<tr>
<td>Timeout</td>
<td>Number of milliseconds to sleep for</td>
</tr>
</tbody>
</table>

See Also

Reference

Thread Class
MSBuild.ExtensionPack.Framework Namespace

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ThreadIterations Property

Number of iterations to wait for

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Thread Class
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**ThreadTimeout Property**  MSBuild Extension Pack Help 4.0.12.0

Number of milliseconds to sleep for

**Namespace:**  MSBuild.ExtensionPack.Framework  
**Assembly:**  MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:**  4.0.0.0

---

**See Also**

**Reference**

Thread Class  
MSBuild.ExtensionPack.Framework Namespace

---

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**XProduct Class**  
MSBuild Extension Pack Help 4.0.12.0

This task creates a cross product of up to 10 ItemGroups

**Remote Execution Support:** NA

**Inheritance Hierarchy**

MSBuild.ExtensionPack.Framework  
XProduct

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

The XProduct type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>XProduct</td>
<td></td>
</tr>
</tbody>
</table>

**Methods**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Execute</td>
<td>(Overrrides Task.Execute.)</td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AddOriginalIdentityUsingGroupNumberSuffix</td>
<td></td>
</tr>
<tr>
<td>Count</td>
<td>The number of items produced by the cross-product</td>
</tr>
<tr>
<td>Group1</td>
<td>ItemGroup1</td>
</tr>
<tr>
<td>Group10</td>
<td>ItemGroup10</td>
</tr>
<tr>
<td>Group</td>
<td>ItemGroup</td>
</tr>
<tr>
<td>---------</td>
<td>-----------</td>
</tr>
<tr>
<td>Group2</td>
<td>ItemGroup2</td>
</tr>
<tr>
<td>Group3</td>
<td>ItemGroup3</td>
</tr>
<tr>
<td>Group4</td>
<td>ItemGroup4</td>
</tr>
<tr>
<td>Group5</td>
<td>ItemGroup5</td>
</tr>
<tr>
<td>Group6</td>
<td>ItemGroup6</td>
</tr>
<tr>
<td>Group7</td>
<td>ItemGroup7</td>
</tr>
<tr>
<td>Group8</td>
<td>ItemGroup8</td>
</tr>
<tr>
<td>Group9</td>
<td>ItemGroup9</td>
</tr>
</tbody>
</table>

**IdentityFormat**
Specifies the format to use for the new ItemGroup names

**Result**
The cross-product result output.

---

### Examples

```xml
<Project ToolsVersion="4.0" xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\Common\MSBuild.ExtensionPack.tasks')"></TPath>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <ItemGroup>
    <AllConfigurations Include="Release">
      <Name>Release</Name>
      <Framework>net-3.5</Framework>
      <OutputDirectory>net-3.5\bin\release\</OutputDirectory>
    </AllConfigurations>
    <AllConfigurations Include="Debug">
      <Name>Debug</Name>
      <Framework>net-3.5</Framework>
      <OutputDirectory>net-3.5\bin\debug\</OutputDirectory>
    </AllConfigurations>
    <AllPlatforms Include="x86">
      <Use32Bit>True</Use32Bit>
    </AllPlatforms>
  </ItemGroup>
</Project>
```
<AllPlatforms>
  <AllPlatforms Include="x64">
    <Use32Bit>False</Use32Bit>
  </AllPlatforms>
</AllPlatforms>

<AllDatabaseSystems Include="SqlServerLocal">
  <DataSource>localhost\.</DataSource>
  <DatabaseDirectory>C:\Databases\.</DatabaseDirectory>
</AllDatabaseSystems>

<AllDatabaseSystems Include="SqlServer2005">
  <DataSource>localhost\MSSQL2005</DataSource>
  <DatabaseDirectory>C:\Databases\MsSql2000</DatabaseDirectory>
</AllDatabaseSystems>

<ItemGroup>
  <Target Name="Default">
    <MSBuild.ExtensionPack.Framework.XProduct Id="XProduct">
      <Output ItemName="NewList" TaskParameter="false">
        <Output PropertyName="CountX" TaskParameter="false">
          <Message Text="Got $(CountX) configurations">
            %%(NewList.Identity)
            %%(NewList.Name)
            %%(NewList.Framework)
            %%(NewList.OutputDirectory)
            %%(NewList.Use32Bit)
            %%(NewList.DataSource)
            %%(NewList.DatabaseDirectory)
          </Message>
        </Output>
      </Output>
    </MSBuild.ExtensionPack.Framework.XProduct>
  </Target>
</ItemGroup>
</Project>

See Also
Reference
MSBuild.ExtensionPack.Framework Namespace

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**XProduct Constructor**

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
- XProduct Class

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The XProduct type exposes the following members.

## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Execute</td>
<td>(Overrides TaskExecute.)</td>
</tr>
</tbody>
</table>

## See Also

**Reference**

XProduct Class

MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**XProductExecute**

**Method**

**Namespace:** MSBuild.ExtensionPack.Framework

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

**See Also**

Reference

**XProduct Class**

MSBuild.ExtensionPack.Framework Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
The **XProduct** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AddOriginalIdentityUsingGroupNumberSuffix</td>
<td>Copies original Identity metadata to result item as well - suffixed by the group number, i.e. you can use <code>% (ResultList.Identity1)</code></td>
</tr>
<tr>
<td>Count</td>
<td>The number of items produced by the cross-product</td>
</tr>
<tr>
<td>Group1</td>
<td>ItemGroup1</td>
</tr>
<tr>
<td>Group10</td>
<td>ItemGroup10</td>
</tr>
<tr>
<td>Group2</td>
<td>ItemGroup2</td>
</tr>
<tr>
<td>Group3</td>
<td>ItemGroup3</td>
</tr>
<tr>
<td>Group4</td>
<td>ItemGroup4</td>
</tr>
<tr>
<td>Group5</td>
<td>ItemGroup5</td>
</tr>
<tr>
<td>Group6</td>
<td>ItemGroup6</td>
</tr>
<tr>
<td>Group7</td>
<td>ItemGroup7</td>
</tr>
<tr>
<td>Group8</td>
<td>ItemGroup8</td>
</tr>
<tr>
<td>Group9</td>
<td>ItemGroup9</td>
</tr>
<tr>
<td>IdentityFormat</td>
<td>Specifies the format to use for the new ItemGroup names</td>
</tr>
<tr>
<td>Result</td>
<td>The cross-product result output.</td>
</tr>
</tbody>
</table>

## See Also

**Reference**

**XProduct Class**

**MSBuild.ExtensionPack.Framework Namespace**
See Also

XProduct AddOriginalIdentityUsingGroupNumberSuffix Property

Copies original Identity metadata to result item as well - suffixed by the group number, i.e. you can use `{ResultList.Identity1}`.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

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Send comments on this topic to MSBuild ExtensionPack Feedback
**XProductCount Property** MSBuild Extension Pack Help 4.0.12.0

The number of items produced by the cross-product

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
XProduct Class  
MSBuild.ExtensionPack.Framework Namespace

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**XProductGroup1**

Property

ItemGroup1

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

XProduct Class  
MSBuild.ExtensionPack.Framework Namespace

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**XProductGroup10**

**Property**

ItemGroup10

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

XProduct Class  
MSBuild.ExtensionPack.Framework Namespace

---

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**XProductGroup2 Property**

ItemGroup2

*Version*: 4.0.0.0

---

**See Also**

Reference

XProduct Class  
MSBuild.ExtensionPack.Framework Namespace

---

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**XProductGroup3**

**Property**

ItemGroup3

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**  
XProduct Class  
MSBuild.ExtensionPack.Framework Namespace

---

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XProductGroup4 Property

ItemGroup4

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
XProduct Class
MSBuild.ExtensionPack.Framework Namespace

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**XProductGroup5 Property**

ItemGroup5

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**  
XProduct Class  
MSBuild.ExtensionPack.Framework Namespace

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XProductGroup

Property

See Also

Reference

XProduct Class

MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**XProductGroup7 Property**

ItemGroup7

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**

- XProduct Class

---

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XProductGroup8 Property

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
XProduct Class
MSBuild.ExtensionPack.Framework Namespace

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XProductGroup9 Property

ItemGroup9

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
XProduct Class
MSBuild.ExtensionPack.Framework Namespace

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See Also

XProduct Class
MSBuild.ExtensionPack.Framework Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**XProductResult Property** MSBuild Extension Pack Help 4.0.12.0

The cross-product result output.

**Namespace:** MSBuild.ExtensionPack.Framework  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

- **XProduct Class**
- **MSBuild.ExtensionPack.Framework Namespace**

---

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MSBuild.ExtensionPack.Git  
MSBuild Extension Pack Help  
4.0.12.0

Namespace

Overview

This namespace hosts tasks that can be used to work with the popular Distributed Version Control System, Git

Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clone</td>
<td>Clone</td>
</tr>
</tbody>
</table>

Interfaces

<table>
<thead>
<tr>
<th>Interface</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IGitFacade</td>
<td>IGitFacade</td>
</tr>
</tbody>
</table>
Clone Class

Inheritance Hierarchy

System \rightarrow Object \rightarrow Microsoft.Build.UtilitiesTask \rightarrow MSBuild.ExtensionPack.GitClone

Namespace: MSBuild.ExtensionPack.Git
Version: 4.0.0.0

The **Clone** type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clone</td>
<td>Initializes a new instance of the <strong>Clone</strong> class.</td>
</tr>
<tr>
<td>Clone(IGitFacade)</td>
<td>Initializes a new instance of the <strong>Clone</strong> class.</td>
</tr>
</tbody>
</table>

### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Execute</td>
<td>Execute the task (Overrides <strong>Task.Execute</strong>.)</td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BranchToSwitchTo</td>
<td>Gets or sets the branch to switch to.</td>
</tr>
<tr>
<td>RepositoryToClone</td>
<td>Gets or sets the repository to clone.</td>
</tr>
<tr>
<td>SHA</td>
<td>Gets the SHA of the latest commit in the given repository.</td>
</tr>
<tr>
<td>TargetDirectory</td>
<td>Gets or sets the target directory.</td>
</tr>
</tbody>
</table>
See Also

Reference

MSBuild.ExtensionPack.Git Namespace

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Clone Constructor

### Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clone</td>
<td>Initializes a new instance of the Clone class.</td>
</tr>
<tr>
<td>Clone(IGitFacade)</td>
<td>Initializes a new instance of the Clone class.</td>
</tr>
</tbody>
</table>

### See Also

#### Reference
- Clone Class
- MSBuild.ExtensionPack.Git Namespace

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Clone Constructor

Initializes a new instance of the Clone class.

Namespace: MSBuild.ExtensionPack.Git  
Version: 4.0.0.0

Remarks

When no parameter is used in the constructor, instantiate the default

See Also

Reference

Clone Class  
Clone Overload  
MSBuild.ExtensionPack.Git Namespace

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Clone Constructor (IGitFacade)

Initializes a new instance of the Clone class.

**Namespace:** MSBuild.ExtensionPack.Git  
**Assembly:** MSBuild.ExtensionPack.Git (in MSBuild.ExtensionPack.Git.dll)  
**Version:** 4.0.0.0

### Remarks

Added to be able to unit test this class using a mock

### See Also

- **Reference**
  - Clone Class
  - Clone Overload
  - MSBuild.ExtensionPack.Git Namespace

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Clone Methods

The Clone type exposes the following members.

Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Execute</td>
<td>Execute the task (Overrides TaskExecute.)</td>
</tr>
</tbody>
</table>

See Also

Reference

Clone Class

MSBuild.ExtensionPack.Git Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
CloneExecute Method

Execute the task

Namespace: MSBuild.ExtensionPack.Git
Version: 4.0.0.0

See Also

Reference
Clone Class
MSBuild.ExtensionPack.Git Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
The **Clone** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BranchToSwitchTo</td>
<td>Gets or sets the branch to switch to.</td>
</tr>
<tr>
<td>RepositoryToClone</td>
<td>Gets or sets the repository to clone.</td>
</tr>
<tr>
<td>SHA</td>
<td>Gets the SHA of the latest commit in the given repository.</td>
</tr>
<tr>
<td>TargetDirectory</td>
<td>Gets or sets the target directory.</td>
</tr>
</tbody>
</table>

## See Also

- **Clone Class**
- **MSBuild.ExtensionPack.Git Namespace**

---

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Send comments on this topic to MSBuild ExtensionPack Feedback.
CloneBranchToSwitchTo Property

Gets or sets the branch to switch to.

**Namespace:** MSBuild.ExtensionPack.Git  
**Assembly:** MSBuild.ExtensionPack.Git (in MSBuild.ExtensionPack.Git.dll)  
**Version:** 4.0.0.0

See Also

Reference

Clone Class
MSBuild.ExtensionPack.Git Namespace

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CloneRepositoryToClone Property

Gets or sets the repository to clone.

**Namespace:** MSBuild.ExtensionPack.Git  
**Assembly:** MSBuild.ExtensionPack.Git (in MSBuild.ExtensionPack.Git.dll)  
**Version:** 4.0.0.0

See Also

Reference

Clone Class  
MSBuild.ExtensionPack.Git Namespace
**CloneSHA Property**

Gets the SHA of the latest commit in the given repository.

**Namespace:** MSBuild.ExtensionPack.Git  
**Assembly:** MSBuild.ExtensionPack.Git (in MSBuild.ExtensionPack.Git.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference  
Clone Class  
MSBuild.ExtensionPack.Git Namespace

---

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See Also

Reference

Clone Class
MSBuild.ExtensionPack.Git Namespace

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IGitFacade Interface

IGitFacade

**Namespace:** MSBuild.ExtensionPack.Git

**Assembly:** MSBuild.ExtensionPack.Git (in MSBuild.ExtensionPack.Git.dll)

**Version:** 4.0.0.0

The **IGitFacade** type exposes the following members.

### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CheckoutBranch</td>
<td>CheckoutBranch</td>
</tr>
<tr>
<td>Clone</td>
<td>Clone</td>
</tr>
<tr>
<td>GetLatestSHA</td>
<td>GetLatestSHA</td>
</tr>
</tbody>
</table>

See Also

**Reference**

MSBuild.ExtensionPack.Git Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
The `IGitFacade` type exposes the following members.

## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CheckoutBranch</td>
<td>CheckoutBranch</td>
</tr>
<tr>
<td>Clone</td>
<td>Clone</td>
</tr>
<tr>
<td>GetLatestSHA</td>
<td>GetLatestSHA</td>
</tr>
</tbody>
</table>

## See Also

**Reference**

- `IGitFacade Interface`
- `MSBuild.ExtensionPack.Git Namespace`

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Send comments on this topic to MSBuild ExtensionPack Feedback
IGitFacadeCheckoutBranch Method

CheckoutBranch

Namespace: MSBuild.ExtensionPack.Git
Version: 4.0.0.0

See Also

Reference
IGitFacade Interface
MSBuild.ExtensionPack.Git Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
IGitFacadeClone Method

Clone

Namespace: MSBuild.ExtensionPack.Git
Version: 4.0.0.0

See Also

Reference

IGitFacade Interface
MSBuild.ExtensionPack.Git Namespace

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IGitFacade

GetLatestSHA

**Method**

GetLatestSHA

**Namespace:** MSBuild.ExtensionPack.Git

**Assembly:** MSBuild.ExtensionPack.Git (in MSBuild.ExtensionPack.Git.dll)

**Version:** 4.0.0.0

**See Also**

Reference

IGitFacade Interface

MSBuild.ExtensionPack.Git Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
# MSBuild.ExtensionPack.Loggers Namespace

## Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SecureFileLogger</td>
<td>This logger can be used to replace text that is logged with hashes (#) based on a set of Regular Expression matches.</td>
</tr>
<tr>
<td>SqlLogger</td>
<td>The SqlLogger can be used to log the output of builds to Microsoft SQLServer.</td>
</tr>
</tbody>
</table>

**Syntax:**

```
/l:SecureFileLogger,MSBuild.ExtensionPack.Loggers.dll;logfile=YOURLOGFILE;rulefile=YOURRULEFILE;append=BOOL;verbosity=YOURVERBOSITY;encoding=YOURENCODING
```

**Parameters:**

- **Logfile:** A optional parameter that specifies the file in which to store the log information. Defaults to `securemsbuild.log`.
- **RuleFile:** A optional parameter that specifies the file in which to read regular expressions from. Use one Regular Expression per line. Defaults to `(?i:.*password.*)`.
- **Append:** An optional boolean parameter that indicates whether or not to append the log to the specified file: true to add the log to the text already present in the file; false to overwrite the contents of the file. The default is false.
- **Verbosity:** An optional parameter that overrides the global verbosity setting for this file logger only. This enables you to log to several loggers, each with a different verbosity.
- **Encoding:** An optional parameter that specifies the encoding for the file, for example, UTF-8.

```
/l:SqlLogger,MSBuild.ExtensionPack.Loggers.dll;BID=123;BN=YOURBuild;DS=MyServer;IC=YOURTable;SP=YOURProcedure;CL;Verbosity=YOURVERBOSITY
```

**Parameters:**

- **BID (BUILDID/BUILDIDENTIFIER):** An optional parameter that specifies the Build ID to associate with the build.
- **BN (BUILDNAME):** An optional parameter that specifies the Build Name to associate with the build.
- **DS (DATASOURCE):** An optional parameter that specifies the DataSource to use in the connectionString. Defaults to `.` (i.e., local).
- **IC (INITIALCATALOG):** An optional parameter that specifies the InitialCatalog to use in the connectionString. Defaults to `MSBuildLogs`.
- **SP (STOREDPROCEDURE):** An optional parameter that specifies the Stored Procedure to call. Defaults to `msbep_SqlLogger`.
- **CL (CLEARLOG):** An optional parameter that clears the log for the specified BID before logging starts.
- **Verbosity:** An optional parameter that overrides the global verbosity setting for this logger only.
XmlFileLogger

This logger can be used to log in xml format

Syntax:

/l:XmlFileLogger,MSBuild.ExtensionPack.Loggers.dll;logfile=YOURLOGFILE;verbosity=YOURVERBOSITY;encoding=YOURENCODING

Parameters:

Logfile: A optional parameter that specifies the file in which to store the log information.

Verbosity: An optional parameter that overrides the global verbosity setting for this file logger only. This enables you to log to several loggers, each with a different verbosity. The verbosity setting is case sensitive.

Encoding: An optional parameter that specifies the encoding for the file, for example, UTF-8.
**SecureFileLogger Class**

This logger can be used to replace text that is logged with hashes (#) based on a set of Regular Expression matches.

**Syntax:**

```
```

**Parameters:**

Logfile: A optional parameter that specifies the file in which to store the log information. Defaults to securemsbuild.log.

RuleFile: A optional parameter that specifies the file in which to read regular expressions from. Use one Regular Expression per line. Defaults to (? i:.*password.*)

Append: An optional boolean parameter that indicates whether or not to append the log to the specified file: true to add the log to the text already present in the file; false to overwrite the contents of the file. The default is false.

Verbosity: An optional parameter that overrides the global verbosity setting for this file logger only. This enables you to log to several loggers, each with a different verbosity.

Encoding: An optional parameter that specifies the encoding for the file, for example, UTF-8.

**Inheritance Hierarchy**

MSBuild.ExtensionPack.LoggersSecureFileLogger

**Namespace:** MSBuild.ExtensionPack.Loggers

**Assembly:** MSBuild.ExtensionPack.Loggers (in MSBuild.ExtensionPack.Loggers.dll) Version: 4.0.0.0

The **SecureFileLogger** type exposes the following members.

**Constructors**
## SecureFileLogger

### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
</table>
| Initialize | Initialize Override  
(Overrrides LoggerInitialize(IEventSource).) |
| Shutdown | Shutdown() is guaranteed to be called by MSBuild at the end of the build, after all events have been raised.  
(Overrrides LoggerShutdown.) |

---

## See Also

**Reference**

MSBuild.ExtensionPack.Loggers Namespace

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SecureFileLogger Constructor

Namespace: MSBuild.ExtensionPack.Loggers

See Also

Reference

SecureFileLogger Class
MSBuild.ExtensionPack.Loggers Namespace

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SecureFileLogger Methods

The SecureFileLogger type exposes the following members.

Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
</table>
| Initialize | Initialize Override  
(Overrides LoggerInitialize(IEventSource).) |
| Shutdown | Shutdown() is guaranteed to be called by MSBuild at the end of the build, after all events have been raised.  
(Overrides LoggerShutdown.) |

See Also

Reference

SecureFileLogger Class

MSBuild.ExtensionPack.Loggers Namespace

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SecureFileLoggerInitialize Method

Initialize Override

Namespace: MSBuild.ExtensionPack.Loggers

See Also

Reference
SecureFileLogger Class
MSBuild.ExtensionPack.Loggers Namespace

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SecureFileLoggerShutdown Method

Shutdown() is guaranteed to be called by MSBuild at the end of the build, after all events have been raised.

Namespace: MSBuild.ExtensionPack.Loggers

See Also

Reference
SecureFileLogger Class
MSBuild.ExtensionPack.Loggers Namespace

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**SqlLogger Class**

The SqlLogger can be used to log the output of builds to Microsoft SQLServer database

**Syntax:**

```
/l:SqlLogger,MSBuild.ExtensionPack.Loggers.dll;BID=123;BN=YOURBuild;I
```

**Parameters:**

- **BID (BUILDID/BUILDIDENTIFIER):** An optional parameter that specifies the Build ID to associate with the build.
- **BN (BUILDNAME):** An optional parameter that specifies the Build Name to associate with the build.
- **DS (DATASOURCE):** An optional parameter that specifies the DataSource to use in the connectionString. Defaults to "." (i.e. local).
- **IC (INITIALCATALOG):** An optional parameter that specifies the InitialCatalog to use in the connectionString. Defaults to "MSBuildLogs".
- **SP (STOREDPROCEDURE):** An optional parameter that specifies the Stored Procedure to call. Defaults to "msbep_SqlLogger".
- **CL (CLEARLOG):** An optional parameter that clears the log for the specified BID before logging starts.
- **Verbosity:** An optional parameter that overrides the global verbosity setting for this logger only.

**Inheritance Hierarchy**

```
SystemObject   Microsoft.Build.UtilitiesLogger
               MSBuild.ExtensionPack.Loggers.SqlLogger
```

**Namespace:** MSBuild.ExtensionPack.Loggers

**Assembly:** MSBuild.ExtensionPack.Loggers (in MSBuild.ExtensionPack.Loggers.dll) Version: 4.0.0.0

The **SqlLogger** type exposes the following members.
Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SqlLogger</td>
<td></td>
</tr>
</tbody>
</table>

Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
</table>
| Initialize | Initialize Override  
(Overrides LoggerInitialize(IEventSource).) |
| Shutdown | Shutdown() is guaranteed to be called by MSBuild at the end of the build, after all events have been raised.  
(Overrides LoggerShutdown.) |

Examples

```
-- This script creates a sample database, table and
-- Drop the database if it exists
IF EXISTS (SELECT name FROM sys.databases WHERE name
BEGIN
    EXEC msdb.dbo.sp_delete_database_backuphistory @
USE [master]
ALTER DATABASE [MSBuildLogs] SET SINGLE_USER WIT
ALTER DATABASE [MSBuildLogs] SET SINGLE_USER
DROP DATABASE [MSBuildLogs]
END
-- Create the database. Alter the paths as necessary
CREATE DATABASE [MSBuildLogs] ON PRIMARY
( NAME = N'MSBuildLogs', FILENAME = N'C:\a\MSBuildLo
LOG ON
( NAME = N'MSBuildLogs_log', FILENAME = N'C:\a\MSBui
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
```
-- Create the table
USE [MSBuildLogs]
GO
CREATE TABLE [MSBuildLogs].[dbo].[BuildLogs](
    [id] [int] IDENTITY(1,1) NOT NULL,
    [BuildId] [int] NULL,
    [BuildName] [nvarchar](100) NULL,
    [Event] [nvarchar](50) NOT NULL,
    [Message] [nvarchar](1500) NULL,
    [EventTime] [datetime] NOT NULL
) ON [PRIMARY]
GO
-- Create a clustered index on the columns this table is likely to be searched on
WITH (STATISTICS_NORECOMPUTE = OFF, SORT_IN_TEMPDB)
GO
-- Create the stored procedure
CREATE PROCEDURE [dbo].[msbep_SqlLogger]
    @BuildId int = NULL,
    @BuildName nvarchar(50) = NULL,
    @Event nvarchar(50),
    @Message nvarchar(1000) = NULL,
    @ClearLog bit = 0
AS
BEGIN
    DECLARE @EventTime DATETIME;
    SET @EventTime = GETDATE();
    IF (@ClearLog = 1)
      BEGIN
        DELETE FROM [dbo].BuildLogs
        WHERE BuildId = @BuildId
      END
    INSERT INTO [dbo].BuildLogs (BuildId, BuildName, [Ev
VALUES (@BuildId, @BuildName, @Event, @Message, @
SqlLogger Constructor

Namespace: MSBuild.ExtensionPack.Loggers

See Also

Reference
SqlLogger Class
MSBuild.ExtensionPack.Loggers Namespace

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The `SqlLogger` type exposes the following members.

## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initialize</td>
<td>Initialize Override (Overrides <code>ILoggerInitialize(IEventSource)</code>.)</td>
</tr>
<tr>
<td>Shutdown</td>
<td>Shutdown() is guaranteed to be called by MSBuild at the end of the build, after all events have been raised. (Overrides <code>ILoggerShutdown</code>.)</td>
</tr>
</tbody>
</table>

## See Also

**Reference**

- `SqlLogger Class`
- `MSBuild.ExtensionPack.Loggers Namespace`
SqlLoggerInitialize Method

Initialize Override

**Namespace:** MSBuild.ExtensionPack.Loggers

**Assembly:** MSBuild.ExtensionPack.Loggers (in MSBuild.ExtensionPack.Loggers.dll) Version: 4.0.0.0

**See Also**

*Reference*

SqlLogger Class
MSBuild.ExtensionPack.Loggers Namespace

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SqlServerShutdown Method

SqlServerShutdown() is guaranteed to be called by MSBuild at the end of the build, after all events have been raised.

**Namespace:** MSBuild.ExtensionPack.Loggers  
**Assembly:** MSBuild.ExtensionPack.Loggers (in MSBuild.ExtensionPack.Loggers.dll) Version: 4.0.0.0

See Also

See Also

SqlServer Class  
MSBuild.ExtensionPack.Loggers Namespace

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XmlFileLogger Class

This logger can be used to log in xml format

Syntax:
/l:XmlFileLogger,MSBuild.ExtensionPack.Loggers.dll;logfile=YOURLOGFILE

Parameters:
Logfile: A optional parameter that specifies the file in which to store the log information. Defaults to msbuild.xml

Verbosity: An optional parameter that overrides the global verbosity setting for this file logger only. This enables you to log to several loggers, each with a different verbosity. The verbosity setting is case sensitive.

Encoding: An optional parameter that specifies the encoding for the file, for example, UTF-8.

Inheritance Hierarchy

System
Object
Microsoft.Build.Utilities
Logger
MSBuild.ExtensionPack.Loggers
XmlFileLogger

Namespace: MSBuild.ExtensionPack.Loggers

The XmlFileLogger type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>!XmlFileLogger</td>
<td></td>
</tr>
</tbody>
</table>

Top

Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initialize</td>
<td>Initialize Override (Overrides LoggerInitialize(IEventSource).)</td>
</tr>
</tbody>
</table>
Shutdown is guaranteed to be called by MSBuild at the end of the build, after all events have been raised.
(Overrides LoggerShutdown.)
See Also

XmlFileLogger Class
MSBuild.ExtensionPack.Loggers Namespace
XmlFileLogger Methods  MSBuild Extension Pack Help 4.0.12.0

The XmlFileLogger type exposes the following members.

Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
</table>
| Initialize | Initialize Override  
(Overrides LoggerInitialize(IEventSource).)                                                                                     |
| Shutdown | Shutdown() is guaranteed to be called by MSBuild at the end of the build, after all events have been raised.  
(Overrides LoggerShutdown.)                                                                 |

Top

See Also

Reference

XmlFileLogger Class
MSBuild.ExtensionPack.Loggers Namespace

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XmlFileLoggerInitialize Method

Initialize Override

**Namespace:** MSBuild.ExtensionPack.Loggers  
**Version:** 4.0.0.0

**See Also**

Reference  
XmlFileLogger Class  
MSBuild.ExtensionPack.Loggers Namespace

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XmlFileLoggerShutdown Method

Shutdown() is guaranteed to be called by MSBuild at the end of the build, after all events have been raised.

Namespace: MSBuild.ExtensionPack.Loggers

See Also

Reference

XmlFileLogger Class
MSBuild.ExtensionPack.Loggers Namespace

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MSBuild.ExtensionPack.Management  MSBuild Extension Pack Help 4.0.12.0

Namespace

Overview

This namespace currently hosts the WMI task. Users are advised to use the WMI Code Creator v1.0 to explore the full possibilities that this task exposes.

Helpful Links

WMI Code Creator v1.0
WMI

Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
</table>
| ![Wmi]  | **Valid TaskActions are:**  
Execute *(Required: Class, Namespace, Method Optional: Instance, MethodParameters Output: ReturnValue)*  

Query *(Required: Class, Properties Output: Info (ITaskItem))*  

Remote Execution Support: Yes
Wmi Class

Valid TaskActions are:

Execute (Required: Class, Namespace, Method Optional: Instance, MethodParameters Output: Return Value)

Query (Required: Class, Properties Output: Info (ITaskItem))

Remote Execution Support: Yes

Inheritance Hierarchy


Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The Wmi type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wmi</td>
<td></td>
</tr>
</tbody>
</table>

Top

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class</td>
<td>Sets the WMI class.</td>
</tr>
<tr>
<td>Info</td>
<td>Gets the WMI info.</td>
</tr>
<tr>
<td>Instance</td>
<td>Sets the Wmi Instance used in Execute</td>
</tr>
<tr>
<td>Method</td>
<td>Sets the Method used in Execute</td>
</tr>
<tr>
<td>MethodParameters</td>
<td>Sets the MethodParameters. Use #~# separate name and value.</td>
</tr>
<tr>
<td>Namespace</td>
<td>Sets the namespace.</td>
</tr>
</tbody>
</table>
Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\..\Common\MSBuild.ExtensionPack.tasks')"/>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <ItemGroup>
      <WmiProps Include="BIOSVersion"/>
      <WmiProps Include="CurrentLanguage"/>
      <WmiProps Include="Manufacturer"/>
      <WmiProps Include="SerialNumber"/>
      <Wmi2Props Include="InstanceName"/>
    </ItemGroup>
    <!-- Note that #~# is used as a separator -->
    <WmiExec Include="Description#~#ExtensionPack Description"/>
    <WmiExec2 Include="Name#~#MyNewShare;Path#~#C:\demo;Type#~#0"/>
    <WmiExec3 Include="CommandLine#~#calc.exe"/>
  </Target>
    <Output TaskParameter="ReturnValue" Prop=""/>
  <Message Text="ReturnValue: $(Rval2)"/>
  <!-- Start the Calculator -->
    <Output TaskParameter="ReturnValue" Prop=""/>
  <Message Text="ReturnValue: $(Rval2)"/>
  <!-- Create a share -->
    <Output TaskParameter="ReturnValue" Prop=""/>
  <Message Text="ReturnValue: $(Rval2)"/>
  <!-- Set share details using the WmiExec ItemGroup info -->
    <Output TaskParameter="ReturnValue" Prop=""/>
</Project>
```
<MSBuild.ExtensionPack.Management.Wmi>
    <Message Text="ReturnValue: $(Rval)"/>
    <!-- Stop a service -->
        "Output TaskParameter="ReturnValue" Property">
    <Message Text="ReturnValue: $(Rval2)"/>
    <!-- Query the Bios properties -->
        "Output TaskParameter="Info" ItemName="Info">
    <!-- Query the server settings properties -->
        "Output TaskParameter="Info" ItemName="Info">
    <Message Text="WMI Info for ServerSettings on %(Info.Identity): InstanceName=%(Info.InstanceName)"
    <!-- Query a remote server -->
        "Output TaskParameter="Info" ItemName="Info">
    <Message Text="Stopping Paint.NET" Condition=
            "Output TaskParameter="Info" ItemName="Info">
</Target>
</Project>

See Also
Reference
MSBuild.ExtensionPack.Management Namespace

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# Wmi Constructor

**Namespace:** MSBuild.ExtensionPack.Management  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

## See Also

- Wmi Class
- MSBuild.ExtensionPack.Management Namespace

---

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The **Wmi** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class</td>
<td>Sets the WMI class.</td>
</tr>
<tr>
<td>Info</td>
<td>Gets the WMI info.</td>
</tr>
<tr>
<td>Instance</td>
<td>Sets the Wmi Instance used in Execute</td>
</tr>
<tr>
<td>Method</td>
<td>Sets the Method used in Execute</td>
</tr>
<tr>
<td>MethodParameters</td>
<td>Sets the MethodParameters. Use #~# separate name and value.</td>
</tr>
<tr>
<td>Namespace</td>
<td>Sets the namespace.</td>
</tr>
<tr>
<td>Properties</td>
<td>An Item Collection of Properties to get</td>
</tr>
<tr>
<td>ReturnValue</td>
<td>Gets the ReturnValue for Execute</td>
</tr>
</tbody>
</table>

## See Also

**Reference**

- **Wmi Class**
- **MSBuild.ExtensionPack.Management Namespace**

---

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Send comments on this topic to [MSBuild ExtensionPack Feedback](mailto:MSBuild ExtensionPack Feedback)
WmiClass Property

Sets the WMI class.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Wmi Class
MSBuild.ExtensionPack.Management Namespace

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WmiInfo Property

Gets the WMI info.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

Wmi Class
MSBuild.ExtensionPack.Management Namespace

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WmiInstance Property  MSBuild Extension Pack Help 4.0.12.0

Sets the Wmi Instance used in Execute

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Wmi Class
MSBuild.ExtensionPack.Management Namespace

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**WmiMethod Property**

Sets the Method used in Execute

**Namespace:** MSBuild.ExtensionPack.Management  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

Wmi Class  
MSBuild.ExtensionPack.Management Namespace

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WmiMethodParameters Property

Sets the MethodParameters. Use `#~#` separate name and value.

**Namespace:** MSBuild.ExtensionPack.Management

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

Reference

- Wmi Class
- MSBuild.ExtensionPack.Management Namespace

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**WmiNamespace Property**

Sets the namespace.

**Namespace:** MSBuild.ExtensionPack.Management  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

### See Also

**Reference**
- **Wmi Class**
- MSBuild.ExtensionPack.Management Namespace

---

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**WmiProperties Property**  MSBuild Extension Pack Help 4.0.12.0

An Item Collection of Properties to get

**Namespace:** MSBuild.ExtensionPack.Management  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

Wmi Class  
MSBuild.ExtensionPack.Management Namespace

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WmiReturnValue Property

Gets the ReturnValue for Execute

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Wmi Class
MSBuild.ExtensionPack.Management Namespace

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Overview

This namespace hosts a task that can play system and .wav sounds.

Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
</table>
| 🎧 Sound | Valid TaskActions are:  
  *Play (Required: SoundFile or SystemSound Optional: Repeat, Interval)*  
  *Remote Execution Support: NA* |

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**Sound Class**

Valid Task Actions are:

*Play* *(Required: SoundFile or SystemSound Optional: Repeat, Interval)*

Remote Execution Support: NA

**Inheritance Hierarchy**

SystemObject  Microsoft.Build.UtilitiesTask
MSBuild.ExtensionPackBaseTask
MSBuild.ExtensionPack.MultimediaSound

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The Sound type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound</td>
<td></td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interval</td>
<td>Sets the interval between beeps. Default is 10ms. Value must be between 10 and 5000</td>
</tr>
<tr>
<td>Repeat</td>
<td>Sets the number of times to play the sound. Default is 1. Value must be between 1 and 20</td>
</tr>
<tr>
<td>SoundFile</td>
<td>Sets the sound file to play</td>
</tr>
<tr>
<td>SystemSound</td>
<td>Sets the SystemSound to play. Supports: Asterisk, Beep, Exclamation, Hand, Question. Does not support Repeat or Interval.</td>
</tr>
</tbody>
</table>

**Examples**
<Project ToolsVersion="4.0" DefaultTargets="Default">
    <PropertyGroup>
        <TPath>$(MSBuildProjectDirectory)\.\.\MSBuild.ExtensionPack.tasks</TPath>
        <TPath Condition="Exists($(MSBuildProjectDirectory)\.\..\Common\MSBuild.ExtensionPack.tasks)"/>
    </PropertyGroup>
    <Import Project="$(TPath)"/>
    <Target Name="Default">
        <!-- Play a bunch of sounds with various tones, repeats and durations -->
    </Target>
</Project>

See Also

Reference
MSBuild.ExtensionPack.Multimedia Namespace

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Sound Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Sound Class
MSBuild.ExtensionPack.Multimedia Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
The **Sound** type exposes the following members.

---

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interval</td>
<td>Sets the interval between beebs. Default is 10ms. Value must be between 10 and 5000</td>
</tr>
<tr>
<td>Repeat</td>
<td>Sets the number of times to play the sound. Default is 1. Value must be between 1 and 20</td>
</tr>
<tr>
<td>SoundFile</td>
<td>Sets the sound file to play</td>
</tr>
<tr>
<td>SystemSound</td>
<td>Sets the SystemSound to play. Supports: Asterisk, Beep, Exclamation, Hand, Question. Does not support Repeat or Interval.</td>
</tr>
</tbody>
</table>

---

### See Also

**Reference**

- **Sound Class**
- **MSBuild.ExtensionPack.Multimedia Namespace**

---

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Send comments on this topic to **MSBuild ExtensionPack Feedback**
SoundInterval Property

Sets the interval between bleeps. Default is 10ms. Value must be between 10 and 5000

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Sound Class
MSBuild.ExtensionPack.Multimedia Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
SoundRepeat Property

Sets the number of times to play the sound. Default is 1. Value must be between 1 and 20

**Namespace:** MSBuild.ExtensionPack.Multimedia  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also

Reference

Sound Class  
MSBuild.ExtensionPack.Multimedia Namespace

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SoundFile

Property

Sets the sound file to play

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

Sound Class
MSBuild.ExtensionPack.Multimedia Namespace

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### SoundSystemSound Property

Sets the SystemSound to play. Supports: Asterisk, Beep, Exclamation, Hand, Question. Does not support Repeat or Interval.

**Namespace:** [MSBuild.ExtensionPack.Multimedia](#)  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

### See Also

**Reference**
- Sound Class
- MSBuild.ExtensionPack.Multimedia Namespace

---

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## MSBuild.ExtensionPack.NuGet Namespace

### Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
</table>
| Packager| **Valid TaskActions are:**  
  *Pack (Required: Id, Version, Authors, Description, LibFiles, Optional: LicenseUrl, ProjectUrl, Title, ContentFiles, ToolsFiles, Owners, ReleaseNotes, CopyrightsText, IconUrl, RequireLicenseAgreement, Tags, Dependencies, References, FrameworkAssemblies)*  
  
  **Remote Execution Support:** NA |

---

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Packager Class

Valid TaskActions are:

Pack (Required: Id, Version, Authors, Description, LibFiles, Optional: LicenseUrl, ProjectUrl, Title, ContentFiles, ToolsFiles, Owners, ReleaseNotes, CopyrightsText, IconUrl, RequireLicenseAgreement, Tags, Dependencies, References, FrameworkAssemblies)

Remote Execution Support: NA

Inheritance Hierarchy

SystemObject  Microsoft.Build.UtilitiesTask
  MSBuild.ExtensionPackBaseTask

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The Packager type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🐐 Packager</td>
<td>Initializes a new instance of the Packager class.</td>
</tr>
</tbody>
</table>

Top

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🏡 Authors</td>
<td>Gets or sets a comma-separated list of authors of the package code.</td>
</tr>
<tr>
<td>📜 ContentFiles</td>
<td>Gets or sets the Files to be included in the contents folder of the package. Files in the content folder are copied to the root of your application when the package is installed.</td>
</tr>
<tr>
<td>📜 CopyrightsText</td>
<td>Gets or sets the Copyright text of the NuGet package.</td>
</tr>
<tr>
<td>🛠 Dependencies</td>
<td>Gets or sets the Dependencies of the NuGet package. An Example of ItemGroup passed to this property net401.2.10</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Gets or sets the long description of the package.</td>
</tr>
<tr>
<td>-----------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td><strong>FrameworkAssemblies</strong></td>
<td>Gets or sets the Framework Assemblies that the deployed package is dependant upon.</td>
</tr>
<tr>
<td><strong>IconUrl</strong></td>
<td>Gets or sets a URL for the image to use as the icon for the package in the Manage NuGet Packages dialog box.</td>
</tr>
<tr>
<td><strong>Id</strong></td>
<td>Gets or sets the Id of the NuGet package. is the package name that is shown when packages are listed using the Package Manager Console. These are also used when installing a package using the Install-Package command within the Package Manager Console. Package IDs may not contain any spaces or characters that are invalid in an URL.</td>
</tr>
<tr>
<td><strong>Language</strong></td>
<td>Gets or sets the locale ID for the package, such as en-us.</td>
</tr>
<tr>
<td><strong>LibraryFiles</strong></td>
<td>Gets or sets the Files to be included in the lib folder of the package. Assemblies (.dll files) in the lib folder are added as assembly references when the package is installed.</td>
</tr>
<tr>
<td><strong>LicenseUrl</strong></td>
<td>Gets or sets a link to the license that the package is under.</td>
</tr>
<tr>
<td><strong>NuGetExeDir</strong></td>
<td>Gets or sets the directory containing the command line tool, NuGet.exe. If none is specified, will default to Resources directory of the currently executing assembly.</td>
</tr>
<tr>
<td><strong>OutputFile</strong></td>
<td>Gets or sets the NuGet Output file</td>
</tr>
<tr>
<td><strong>Owners</strong></td>
<td>Gets or sets a comma-separated list of the package creators.</td>
</tr>
<tr>
<td><strong>ProjectUrl</strong></td>
<td>Gets or sets a URL for the home page of the package.</td>
</tr>
<tr>
<td><strong>References</strong></td>
<td>Gets or sets the References files or the files which are added as reference by default. The collection should only contain the names of the files and not the path.</td>
</tr>
<tr>
<td><strong>ReleaseNotes</strong></td>
<td>Gets or sets the Release Notes of the NuGet package. This field only shows up when the package is an update to a previously installed package. It is displayed where the Description would normally be displayed.</td>
</tr>
<tr>
<td><strong>RequiresExplicitLicensing</strong></td>
<td>Gets or sets the RequireLicense property which determines whether the NuGet package requires explicit license permissions or not. Default is false.</td>
</tr>
<tr>
<td><strong>Summary</strong></td>
<td>Gets or sets the summary, a short description of the package. If specified, this shows up in the middle pane of the Add Package Dialog. If not specified, a truncated version of the description is used instead.</td>
</tr>
<tr>
<td><strong>Tags</strong></td>
<td>Gets or sets the tags for the NuGet package. It should be a space-delimited list of tags.</td>
</tr>
<tr>
<td><strong>Title</strong></td>
<td>Gets or sets the Title text of the NuGet package. The human-friendly title of the package displayed in the Manage NuGet...</td>
</tr>
</tbody>
</table>
Examples

```
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <ItemGroup>
    <LibraryFiles Include="C:\Work\Community\MSBuildExtensionPack\Samples\Files\DotNet40\*.*">
      <Framework>net40</Framework>
    </LibraryFiles>
    <LibraryFiles Include="C:\Work\Community\MSBuildExtensionPack\Samples\Files\DotNet35\*.*">
      <Framework>net35</Framework>
    </LibraryFiles>
    <LibraryFiles Include="C:\Work\Community\MSBuildExtensionPack\Samples\Files\*.*">
    </LibraryFiles>
  </ItemGroup>
  <ItemGroup>
    <Dependencies Include="log4net">
      <Framework>net40</Framework>
      <Version>1.2.10</Version>
    </Dependencies>
  </ItemGroup>
  <ItemGroup>
    <FrameworkAssemblies Include="System.Data.Entity">
      <Framework>net40</Framework>
    </FrameworkAssemblies>
    <FrameworkAssemblies Include="System.ComponentModel.DataAnnotations">
      <Framework>net40</Framework>
    </FrameworkAssemblies>
  </ItemGroup>
  <Target Name="Default">
    <Packager TaskAction="Pack" Id="MSBuildExtensionPack" />
  </Target>
</Project>
```
Packager Constructor

Initializes a new instance of the Packager class.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Packager Class
MSBuild.ExtensionPack.NuGet Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
The **Packager** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Authors</td>
<td>Gets or sets a comma-separated list of authors of the package code.</td>
</tr>
<tr>
<td>ContentFiles</td>
<td>Gets or sets the Files to be included in the contents folder of the package. Files in the content folder are copied to the root of your application when the package is installed.</td>
</tr>
<tr>
<td>CopyrightText</td>
<td>Gets or sets the Copyright text of the NuGet package.</td>
</tr>
<tr>
<td>Dependencies</td>
<td>Gets or sets the Dependencies of the NuGet package. An Example of ItemGroup passed to this property net401.2.10</td>
</tr>
<tr>
<td>Description</td>
<td>Gets or sets the long description of the package.</td>
</tr>
<tr>
<td>FrameworkAssemblies</td>
<td>Gets or sets the Framework Assemblies that the deployed package is dependant upon.</td>
</tr>
<tr>
<td>IconUrl</td>
<td>Gets or sets a URL for the image to use as the icon for the package in the Manage NuGet Packages dialog box.</td>
</tr>
<tr>
<td>Id</td>
<td>Gets or sets the Id of the NuGet package. is the package name that is shown when packages are listed using the Package Manager Console. These are also used when installing a package using the Install-Package command within the Package Manager Console. Package IDs may not contain any spaces or characters that are invalid in an URL.</td>
</tr>
<tr>
<td>Language</td>
<td>Gets or sets the locale ID for the package, such as en-us.</td>
</tr>
<tr>
<td>LibraryFiles</td>
<td>Gets or sets the Files to be included in the lib folder of the package. Assemblies (.dll files) in the lib folder are added as assembly references when the package is installed.</td>
</tr>
<tr>
<td>LicenseUrl</td>
<td>Gets or sets a link to the license that the package is under.</td>
</tr>
<tr>
<td>NuGetExeDir</td>
<td>Gets or sets the directory containing the command line tool, NuGet.exe. If none is specified, will default to Resources directory of the currently executing assembly.</td>
</tr>
<tr>
<td>OutputFile</td>
<td>Gets or sets the NuGet Output file</td>
</tr>
<tr>
<td>Owners</td>
<td>Gets or sets a comma-separated list of the package creators.</td>
</tr>
<tr>
<td>ProjectUrl</td>
<td>Gets or sets a URL for the home page of the package.</td>
</tr>
<tr>
<td></td>
<td>Description</td>
</tr>
<tr>
<td>---------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>References</td>
<td>Gets or sets the References files or the files which are added as reference by default. The collection should only contain the names of the files and not the path.</td>
</tr>
<tr>
<td>ReleaseNotes</td>
<td>Gets or sets the Release Notes of the NuGet package. This field only shows up when the package is an update to a previously installed package. It is displayed where the Description would normally be displayed.</td>
</tr>
<tr>
<td>RequiresExplicitLicensing</td>
<td>Gets or sets the RequireLicense property which determines whether the NuGet package requires explicit license permissions or not. Default is false.</td>
</tr>
<tr>
<td>Summary</td>
<td>Gets or sets the summary, a short description of the package. If specified, this shows up in the middle pane of the Add Package Dialog. If not specified, a truncated version of the description is used instead.</td>
</tr>
<tr>
<td>Tags</td>
<td>Gets or sets the tags for the NuGet package. It should be a space-delimited list of tags.</td>
</tr>
<tr>
<td>Title</td>
<td>Gets or sets the Title text of the NuGet package. The human-friendly title of the package displayed in the Manage NuGet Packages dialog.</td>
</tr>
<tr>
<td>ToolsFiles</td>
<td>Gets or sets the Files to be included in the tools folder of the package. The tools folder of a package is for powershell scripts and programs accessible from the Package Manager Console.</td>
</tr>
<tr>
<td>Version</td>
<td>Gets or sets the version of the package. The version of the package, in a format like 1.2.3.</td>
</tr>
</tbody>
</table>

**Top**

**See Also**

**Reference**

Packager Class

MSBuild.ExtensionPack.NuGet Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
PackagerAuthors Property

Gets or sets a comma-separated list of authors of the package code.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Packager Class
MSBuild.ExtensionPack.NuGet Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
PackagerContentFiles
Property

MSBuild Extension Pack Help
4.0.12.0

Gets or sets the Files to be included in the contents folder of the package.
Files in the content folder are copied to the root of your application when the
package is installed.
4.0.0.0

Examples
Copy

<ItemGroup>
<Content Include="..\Community\MSBuildExtensionPack\Sampl
<Framework>net40</Framework>
</Content>
<Content Include="..\Community\MSBuildExtensionPack\Sampl
<Framework>net35</Framework>
</Content>
<Content Include="..\Community\MSBuildExtensionPack\Sampl
</ItemGroup>

See Also
Reference

Packager Class
MSBuild.ExtensionPack.NuGet Namespace
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reserved.
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PackagerCopyrightText Property

Gets or sets the Copyright text of the NuGet package.

**Namespace:** MSBuild.ExtensionPack.NuGet  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

- Packager Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
PackagerDependencies Property

Gets or sets the Dependencies of the NuGet package. An Example of ItemGroup passed to this property net40.2.10

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Packager Class
MSBuild.ExtensionPack.NuGet Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
PackagerDescription Property

Gets or sets the long description of the package.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Packager Class
MSBuild.ExtensionPack.NuGet Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
Packager.IsValidProperty = Property

Gets or sets the Framework Assemblies that the deployed package is dependant upon.

**Namespace:** MSBuild.ExtensionPack.NuGet

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**Examples**

net45net40

**See Also**

Reference

Packager Class

MSBuild.ExtensionPack.NuGet Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
PackagerIconUrl Property

Gets or sets a URL for the image to use as the icon for the package in the Manage NuGet Packages dialog box.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Packager Class
MSBuild.ExtensionPack.NuGet Namespace

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PackagerId Property

Gets or sets the Id of the NuGet package. is the package name that is shown when packages are listed using the Package Manager Console. These are also used when installing a package using the Install-Package command within the Package Manager Console. Package IDs may not contain any spaces or characters that are invalid in an URL.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Packager Class
MSBuild.ExtensionPack.NuGet Namespace

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PackagerLanguage Property

Gets or sets the locale ID for the package, such as en-us.

**Namespace:** MSBuild.ExtensionPack.NuGet

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

---

See Also

**Reference**

Packager Class

MSBuild.ExtensionPack.NuGet Namespace

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Send comments on this topic to [MSBuild ExtensionPack Feedback](mailto:MSBuild ExtensionPack Feedback)
PackagerLibraryFiles
Property

MSBuild Extension Pack Help
4.0.12.0

Gets or sets the Files to be included in the lib folder of the package.
Assemblies (.dll files) in the lib folder are added as assembly references when
the package is installed.
4.0.0.0

Examples
Copy

<ItemGroup>
<LibraryFiles Include="..\Community\MSBuildExtensionPack\
<Framework>net40</Framework>
</LibraryFiles>
<LibraryFiles Include="..\Community\MSBuildExtensionPack\
<Framework>net35</Framework>
</LibraryFiles>
<LibraryFiles Include="..\Community\MSBuildExtensionPack\
</ItemGroup>

See Also
Reference

Packager Class
MSBuild.ExtensionPack.NuGet Namespace
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<table>
<thead>
<tr>
<th><strong>PackagerLicenseUrl</strong> Property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gets or sets a link to the license that the package is under.</td>
</tr>
</tbody>
</table>

**Namespace:** MSBuild.ExtensionPack.NuGet  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

### See Also

**Reference**

- Packager Class

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PackagerNuGetExeDir  MSBuild Extension Pack Help  4.0.12.0

Property

Gets or sets the directory containing the command line tool, NuGet.exe. If none is specified, will default to Resources directory of the currently executing assembly.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

Packager Class
MSBuild.ExtensionPack.NuGet Namespace

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PackagerOutputFile Property

Gets or sets the NuGet Output file

**Namespace:** MSBuild.ExtensionPack.NuGet  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

Packager Class  
MSBuild.ExtensionPack.NuGet Namespace

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PackagerOwners Property

Gets or sets a comma-separated list of the package creators.

**Namespace:** MSBuild.ExtensionPack.NuGet  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also

Reference  
Packager Class  
MSBuild.ExtensionPack.NuGet Namespace

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**PackagerProjectUrl**

**Property**

Gets or sets a URL for the home page of the package.

**Namespace:** MSBuild.ExtensionPack.NuGet  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

Packager Class  
MSBuild.ExtensionPack.NuGet Namespace

---

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**PackagerReferences Property**

Gets or sets the References files or the files which are added as reference by default. The collection should only contain the names of the files and not the path.

**Namespace:** MSBuild.ExtensionPack.NuGet  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Examples**

```
<references>
  <reference file="xunit.dll" />
  <reference file="xunit.extensions.dll" />
</references>
```

**See Also**

Reference  
Packager Class  
MSBuild.ExtensionPack.NuGet Namespace

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PackagerReleaseNotes Property

Gets or sets the Release Notes of the NuGet package. This field only shows up when the package is an update to a previously installed package. It is displayed where the Description would normally be displayed.


See Also

Reference
Packager Class
MSBuild.ExtensionPack.NuGet Namespace

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PackagerRequiresExplicitLicensing Property

Gets or sets the RequireLicense property which determines whether the NuGet package requires explicit license permissions or not. Default is false.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Packager Class
MSBuild.ExtensionPack.NuGet Namespace

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**PackagerSummary Property**

Gets or sets the summary, a short description of the package. If specified, this shows up in the middle pane of the Add Package Dialog. If not specified, a truncated version of the description is used instead.

**Namespace:** MSBuild.ExtensionPack.NuGet  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

Packager Class  
MSBuild.ExtensionPack.NuGet Namespace

---

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PackagerTags Property

Gets or sets the tags for the NuGet package. It should be a space-delimited list of tags.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Packager Class
MSBuild.ExtensionPack.NuGet Namespace

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PackagerTitle Property  MSBuild Extension Pack Help 4.0.12.0

Gets or sets the Title text of the NuGet package. The human-friendly title of the package displayed in the Manage NuGet Packages dialog.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Packager Class
MSBuild.ExtensionPack.NuGet Namespace

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Packager\Tools\Files Property

Gets or sets the Files to be included in the tools folder of the package. The tools folder of a package is for powershell scripts and programs accessible from the Package Manager Console.

**Namespace:** MSBuild.ExtensionPack.NuGet

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**Examples**

```xml
<ItemGroup>
  <Tools Include="..\Community\MSBuildExtensionPack\Samples\Files\init.ps1">
    <Framework>net40</Framework>
  </Tools>
  <Tools Include="..\Community\MSBuildExtensionPack\Samples\Files\init35.ps1">
    <Framework>net35</Framework>
  </Tools>
  <Tools Include="..\Community\MSBuildExtensionPack\Samples\Files\*.ps1">
</ItemGroup>
```

**See Also**

Reference

Packager Class
MSBuild.ExtensionPack.NuGet Namespace

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PackagerVersion Property

Gets or sets the version of the package. The version of the package, in a format like 1.2.3.

**Namespace:** MSBuild.ExtensionPack.NuGet

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

---

See Also

**Reference**

Packager Class

MSBuild.ExtensionPack.NuGet Namespace

---

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# MSBuild.ExtensionPack.Science Namespace

## Overview

This namespace hosts a Maths task which can be used to perform various mathematics functions and expression evaluations.

## Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Maths" /></td>
<td>Maths</td>
</tr>
</tbody>
</table>

**Valid TaskActions are:**

- **Add** *(Required: Numbers **Output**: Result)*
- **And** *(Required: Numbers **Output**: Result)*
- **Or** *(Required: Numbers **Output**: Result)*
- **Compare** *(Required: P1, P2, Comparison **Output**: LogicalResult)*
- **Divide** *(Required: Numbers **Output**: Result)*
- **Evaluate** *(Required: Expression **Output**: Result)*
- **Multiply** *(Required: Numbers **Output**: Result)*
- **Modulus** *(Required: Numbers **Output**: Result)*
- **Subtract** *(Required: Numbers **Output**: Result)*
- **LeftShift** *(Required: Numbers **Output**: Result)*
- **RightShift** *(Required: Numbers **Output**: Result)*

**Remote Execution Support:** NA

---

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**Maths Class**

**Valid TaskActions are:**

*Add* *(Required: Numbers* **Output:** Result)*

*And* *(Required: Numbers** Output:** Result)*

*Or* *(Required: Numbers** Output:** Result)*

*Compare* *(Required: P1, P2, Comparison** Output:** LogicalResult)*

*Divide* *(Required: Numbers** Output:** Result)*

*Evaluate* *(Required: Expression** Output:** Result)*

*Multiply* *(Required: Numbers** Output:** Result)*

*Modulus* *(Required: Numbers** Output:** Result)*

*Subtract* *(Required: Numbers** Output:** Result)*

*LeftShift* *(Required: Numbers** Output:** Result)*

*RightShift* *(Required: Numbers** Output:** Result)*

**Remote Execution Support:** NA

---

**Inheritance Hierarchy**

*SystemObject*  *Microsoft.Build.UtilitiesTask*  
*MSBuild.ExtensionPackBaseTask*  
*MSBuild.ExtensionPack.ScienceMaths*

**Namespace:** MSBuild.ExtensionPack.Science  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The **Maths** type exposes the following members.

---

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maths</td>
<td></td>
</tr>
</tbody>
</table>

---

**Top**
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comparison</td>
<td>Sets the Comparison. Supports 'GreaterThan', 'LessThan', 'GreaterThanOrEquals', 'LessThanOrEquals'</td>
</tr>
<tr>
<td>Expression</td>
<td>Sets the expression.</td>
</tr>
<tr>
<td>LogicalResult</td>
<td>Gets the LogicalResult</td>
</tr>
<tr>
<td>Numbers</td>
<td>A semicolon separated collection of numbers</td>
</tr>
<tr>
<td>P1</td>
<td>Sets P1.</td>
</tr>
<tr>
<td>P2</td>
<td>Sets P2.</td>
</tr>
<tr>
<td>Result</td>
<td>Gets the result.</td>
</tr>
</tbody>
</table>

## Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks')"/>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- Left Shift two numbers -->
      <Output PropertyName="RResult" TaskParameter="LeftShift: $(RResult)"/>
    <!-- Right Shift two numbers -->
      <Output PropertyName="RResult" TaskParameter="RightShift: $(RResult)"/>
    <!-- Or two numbers -->
      <Output PropertyName="RResult" TaskParameter="Or: $(RResult)"/>
  </Target>
</Project>
```
<Message Text="Or: $(RResult)"/>
!--- Mod two numbers -->
   <Output PropertyName="RResult" TaskParam
<Message Text="Modulus: $(RResult)"/>
!--- Evaluate a basic expression -->
   <Output PropertyName="RResult" TaskParam
<Message Text="Evaluate: $(RResult)"/>
!--- Add numbers -->
   <Output PropertyName="RResult" TaskParam
<Message Text="Add: $(RResult)"/>
!--- Subtract numbers -->
   <Output PropertyName="RResult" TaskParam
<Message Text="Subtract: $(RResult)"/>
!--- Divide numbers -->
   <Output PropertyName="RResult" TaskParam
<Message Text="Divide: $(RResult)"/>
!--- Multiply numbers -->
   <Output PropertyName="RResult" TaskParam
<Message Text="Multiply: $(RResult)"/>
!--- Compare whether one number is less than
   <Output PropertyName="RResult" TaskParam
<Message Text="Compare: $(RResult)"/>
<CallTarget Targets="Default2"/>
</Target>
<!-- Factorial calculation provided by Stephen C -->

<Target Name="Default2">
  <PropertyGroup>
    <Input>8</Input>
  </PropertyGroup>
</Target>

<!-- Argument error checking -->
  <Output TaskParameter="LogicalResult" PropertyGroup="TargetName" Name="Default2" />
  <Error Condition="'$(InputCheck)' != 'False'">
    <!-- Invoke the Factorial target with the current Input property -->
    <MSBuild Projects="$(MSBuildProjectFile)" Targets="Factorial">
      <Output TaskParameter="TargetOutputs" It />
    </MSBuild>
  </Error>

<!-- Display the result -->
<Message Importance="high" Text="Result: @(FactorialResult)"
</Target>

<!-- The Factorial target uses FactorialCore to do the calculation -->
<Target Name="Factorial" DependsOnTargets="FactorialCore">
  <!-- If the input is 1, then the factorial is 1 -->
  <PropertyGroup Condition="'$(Input) == 1'">
    <FactorialResult>1</FactorialResult>
  </PropertyGroup>
  <!-- If we don't know the result yet (i.e. the input is not 1) then calculate the factorial -->
  <CallTarget Condition="'$(FactorialResult) == '''">
  </CallTarget>
</Target>

<Target Name="CalculateFactorial">
  <!-- Subtract 1 from $(Input) -->
    <Output TaskParameter="Result" PropertyName="Factorial">
      <Error Condition="'$(InputCheck) != False'">
        <!-- Determine the factorial of $(Input) - 1 -->
        <MSBuild Projects="$(MSBuildProjectFile)" Targets="Factorial">"It />
        <Output TaskParameter="TargetOutputs" It />
      </Error>
    <!-- Multiply !($(Input) - 1) by $(Input) to get the result -->
      <Output TaskParameter="Result" PropertyName="Factorial">
      </Output>
</Target>
  <Target>
  </Target>
  </Project>

See Also

Reference

MSBuild.ExtensionPack.Science Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
Maths Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Maths Class
MSBuild.ExtensionPack.Science Namespace

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The **Maths** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comparison</td>
<td>Sets the Comparison. Supports 'GreaterThan', 'LessThan', 'GreaterThanOrEquals', 'LessThanOrEquals'</td>
</tr>
<tr>
<td>Expression</td>
<td>Sets the expression.</td>
</tr>
<tr>
<td>LogicalResult</td>
<td>Gets the LogicalResult</td>
</tr>
<tr>
<td>Numbers</td>
<td>A semicolon separated collection of numbers</td>
</tr>
<tr>
<td>P1</td>
<td>Sets P1.</td>
</tr>
<tr>
<td>P2</td>
<td>Sets P2.</td>
</tr>
<tr>
<td>Result</td>
<td>Gets the result.</td>
</tr>
</tbody>
</table>

## See Also

**Reference**

- **Maths Class**
- **MSBuild.ExtensionPack.Science Namespace**

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Send comments on this topic to MSBuild ExtensionPack Feedback
MathsComparison Property

Sets the Comparison. Supports 'Greater Than', 'Less Than', 'Greater Than Or Equals', 'Less Than Or Equals'

**Namespace:** MSBuild.ExtensionPack.Science
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

**See Also**
- Reference
  - Maths Class

---

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MathsExpression Property

Sets the expression.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Maths Class
MSBuild.ExtensionPack.Science Namespace

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MathsLogicalResult
Property

Gets the LogicalResult

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Maths Class
MSBuild.ExtensionPack.Science Namespace

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MathsNumbers Property  MSBuild Extension Pack Help 4.0.12.0

A semicolon separated collection of numbers

Assembly:  MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Maths Class
MSBuild.ExtensionPack.Science Namespace

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MathsP1 Property

Sets P1.

**Namespace:** MSBuild.ExtensionPack.Science

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

- Maths Class

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MathsP2 Property

Sets P2.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Maths Class
MSBuild.ExtensionPack.Science Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
MathsResult Property

Gets the result.

**Namespace**: MSBuild.ExtensionPack.Science

**Assembly**: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

Maths Class

MSBuild.ExtensionPack.Science Namespace
MSBuild.ExtensionPack.Security

Namespace

Overview

This namespace hosts a Certificate task that can be used to add and remove certificates.

Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
</table>
| Certificate | **Valid TaskActions are:**  
|             |   *Add (Required: FileName **Optional:** MachineStore, CertPassword, Exportable, StoreName **Output:** Thumbprint, SubjectDName)*  
|             |   *GetBase64EncodedCertificate (Required: Thumbprint or SubjectDName **Optional:** MachineStore, **Output:** Base64EncodedCertificate)*  
|             |   *GetExpiryDate (Required: Thumbprint or SubjectDName **Optional:** MachineStore, **Output:** CertificateExpiryDate)*  
|             |   *GetInfo (Required: Thumbprint or SubjectDName **Optional:** MachineStore, StoreName **Output:** CertInfo)*  
|             |   *Remove (Required: Thumbprint or SubjectDName **Optional:** MachineStore, StoreName)*  
|             |   *SetUserRights (Required: AccountName, Thumbprint or SubjectDName **Optional:** MachineStore, **Output:** )*  
|             | **Remote Execution Support:** No  

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Certificate Class MSBuild Extension Pack Help 4.0.12.0

Valid TaskActions are:

Add (Required: FileName Optional: MachineStore, CertPassword, Exportable, StoreName Output: Thumbprint, SubjectDName)

GetBase64EncodedCertificate (Required: Thumbprint or SubjectDName Optional: MachineStore, Output: Base64EncodedCertificate)

GetExpiryDate (Required: Thumbprint or SubjectDName Optional: MachineStore, Output: CertificateExpiryDate)

GetInfo (Required: Thumbprint or SubjectDName Optional: MachineStore, StoreName Output: CertInfo)

Remove (Required: Thumbprint or SubjectDName Optional: MachineStore, StoreName)

SetUserRights (Required: AccountName, Thumbprint or SubjectDName Optional: MachineStore, Output: )

Remote Execution Support: No

Inheritance Hierarchy


Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The Certificate type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certificate</td>
<td></td>
</tr>
</tbody>
</table>

Top
# Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccessRights</td>
<td>The access rights that need to be given.</td>
</tr>
<tr>
<td>AccountName</td>
<td>The name of user or group that needs to be given rights on the given certificate</td>
</tr>
<tr>
<td>Base64EncodedCertificate</td>
<td>Gets or sets the Base 64 Encoded string of the certificate</td>
</tr>
<tr>
<td>CertificateExpiryDate</td>
<td>Gets the Certificate Expiry Date.</td>
</tr>
<tr>
<td>CertInfo</td>
<td>Gets the item which contains the Certificate information. The following Metadata is populated: SubjectName, SignatureAlgorithm, SubjectNameOidValue, Archived, NotAfter, NotBefore, FriendlyName, HasPrivateKey, Thumbprint, Version, PrivateKeyFileName, IssuerName</td>
</tr>
<tr>
<td>CertPassword</td>
<td>Sets the password for the pfx file from which the certificate is to be imported, defaults to blank</td>
</tr>
<tr>
<td>DistinguishedName</td>
<td>Gets the Distinguished Name for the certificate used to uniquely identify certificate in further tasks. The distinguished name can be used in place of thumbprint to identify a certificate</td>
</tr>
<tr>
<td>Exportable</td>
<td>Sets a value indicating whether the certificate is exportable.</td>
</tr>
<tr>
<td>FileName</td>
<td>Sets the name of the file.</td>
</tr>
<tr>
<td>MachineStore</td>
<td>Sets a value indicating whether to use the MachineStore. Default is false</td>
</tr>
<tr>
<td>StoreName</td>
<td>Sets the name of the store. Defaults to My AddressBook: The store for other users AuthRoot: The store for third-party certificate authorities CertificateAuthority: The store for intermediate certificate authorities Disallowed: The store for revoked certificates My: The store for personal certificates Root: The store for trusted root certificate authorities TrustedPeople: The store for directly trusted people and resources TrustedPublisher: The store for directly trusted publishers</td>
</tr>
<tr>
<td>SubjectDName</td>
<td>The distinguished subject name of the certificate</td>
</tr>
<tr>
<td>Thumbprint</td>
<td>Gets the thumbprint. Used to uniquely identify certificate in further tasks The thumbprint can be used in place of distinguished name to identify a certificate</td>
</tr>
</tbody>
</table>
<Project ToolsVersion="4.0" DefaultTargets="Default"
   <PropertyGroup>
      <TPath>$(MSBuildProjectDirectory)\.\ MSBuild.ExtensionPack.tasks
      <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\ ..\ MSBuild.ExtensionPack.tasks')"
   </PropertyGroup>
<Import Project="$(TPath)"/>
<Target Name="Default">
   <!-- Add a certificate -->
      <Output TaskParameter="Thumbprint" PropertyName="SubjectDName" />
   <Message Text="Thumbprint: $(TPrint)"/>
   <Message Text="SubjectName: $(SName)"/>
   <!-- Get Certificate Information -->
      <Output TaskParameter="CertInfo" ItemName="CertificateInfo"/>
   <Message Text="SubjectName: %(ICertInfo.SubjectName)"/>
   <Message Text="SubjectNameOidValue: %(ICertInfo.SubjectNameOidValue)"/>
   <Message Text="SerialNumber: %(ICertInfo.SerialNumber)"/>
   <Message Text="Archived: %(ICertInfo.Archived)"/>
   <Message Text="NotBefore: %(ICertInfo.NotBefore)"/>
   <Message Text="NotAfter: %(ICertInfo.NotAfter)"/>
   <Message Text="PrivateKeyFileName: %(ICertInfo.PrivateKeyFileName)"/>
   <Message Text="FriendlyName: %(ICertInfo.FriendlyName)"/>
   <Message Text="HasPrivateKey: %(ICertInfo.HasPrivateKey)"/>
   <Message Text="Thumbprint: %(ICertInfo.Thumbprint)"/>
   <Message Text="Version: %(ICertInfo.Version)"/>
   <Message Text="PrivateKeyFileName: %(ICertInfo.PrivateKeyFileName)"/>
   <Message Text="SignatureAlgorithm: %(ICertInfo.SignatureAlgorithm)"/>
   <Message Text="IssuerName: %(ICertInfo.IssuerName)"/>
   <Message Text="HasPrivateKey: %(ICertInfo.HasPrivateKey)"/>
   <!-- Remove a certificate -->
</Target>
See Also

Reference


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Certificate Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Certificate Class

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The Certificate type exposes the following members.

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AccessRights</td>
<td>The access rights that need to be given.</td>
</tr>
<tr>
<td>AccountName</td>
<td>The name of user or group that needs to be given rights on the given certificate</td>
</tr>
<tr>
<td>Base64EncodedCertificate</td>
<td>Gets or sets the Base 64 Encoded string of the certificate</td>
</tr>
<tr>
<td>CertificateExpiryDate</td>
<td>Gets the Certificate Expiry Date.</td>
</tr>
<tr>
<td>CertInfo</td>
<td>Gets the item which contains the Certificate information. The following Metadata is populated: SubjectName, SignatureAlgorithm, SubjectNameOidValue, SerialNumber, Archived, NotAfter, NotBefore, FriendlyName, HasPrivateKey, Thumbprint, Version, PrivateKeyFileName, IssuerName</td>
</tr>
<tr>
<td>CertPassword</td>
<td>Sets the password for the pfx file from which the certificate is to be imported, defaults to blank</td>
</tr>
<tr>
<td>DistinguishedName</td>
<td>Gets the Distinguished Name for the certificate used to uniquely identify certificate in further tasks. The distinguished name can be used in place of thumbprint to identify a certificate</td>
</tr>
<tr>
<td>Exportable</td>
<td>Sets a value indicating whether the certificate is exportable.</td>
</tr>
<tr>
<td>FileName</td>
<td>Sets the name of the file.</td>
</tr>
<tr>
<td>MachineStore</td>
<td>Sets a value indicating whether to use the MachineStore. Default is false</td>
</tr>
<tr>
<td>StoreName</td>
<td>Sets the name of the store. Defaults to My AddressBook: The store for other users, AuthRoot: The store for third-party certificate authorities, CertificateAuthority: The store for intermediate certificate authorities, Disallowed: The store for revoked certificates, My: The store for personal certificates, Root: The store for trusted root certificate authorities, TrustedPeople: The store for directly trusted people and resources, TrustedPublisher: The store for directly trusted publishers</td>
</tr>
<tr>
<td>SubjectDName</td>
<td>The distinguished subject name of the certificate</td>
</tr>
</tbody>
</table>
Thumbprint

<table>
<thead>
<tr>
<th>Thumbprint</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gets the thumbprint. Used to uniquely identify certificate in further tasks. The thumbprint can be used in place of distinguished name to identify a certificate.</td>
</tr>
</tbody>
</table>

See Also

Reference
Certificate Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
CertificateAccessRights Property

The access rights that need to be given.

**Namespace:** MSBuild.ExtensionPack.Security  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

[Certificate Class](#)  

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CertificateAccountName Property

The name of user or group that needs to be given rights on the given certificate

**Namespace:** MSBuild.ExtensionPack.Security
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

See Also

Reference

Certificate Class

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CertificateBase64EncodedCertificate Property

Gets or sets the Base 64 Encoded string of the certificate

**Namespace:** MSBuild.ExtensionPack.Security  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also

Reference

Certificate Class  

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CertificateCertificateExpriyDate

Property

Gets the Certificate Expiry Date.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Certificate Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
CertificateCertInfo Property

Gets the item which contains the Certificate information. The following Metadata is populated: SubjectName, SignatureAlgorithm, SubjectNameOidValue, SerialNumber, Archived, NotAfter, NotBefore, FriendlyName, HasPrivateKey, Thumbprint, Version, PrivateKeyFileName, IssuerName

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Certificate Class

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CertificateCertPassword Property

Sets the password for the pfx file from which the certificate is to be imported, defaults to blank

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Certificate Class

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**CertificateDistinguishedName**  

**Property**

Gets the Distinguished Name for the certificate used to uniquely identify certificate in further tasks. The distinguished name can be used in place of thumbprint to identify a certificate.

**Namespace:**  
MSBuild.ExtensionPack.Security

**Assembly:**  
**Version:**  
4.0.0.0

---

See Also

---

**Reference**

**Certificate Class**

**MSBuild.ExtensionPack.Security Namespace**

---

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CertificateExportable Property

Sets a value indicating whether the certificate is exportable.

**Namespace:** MSBuild.ExtensionPack.Security

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

Reference

- Certificate Class

---

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CertificateFileName Property

Sets the name of the file.

**Namespace:** MSBuild.ExtensionPack.Security  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

See Also

**Reference**

Certificate Class  

---

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CertificateMachineStore Property

Sets a value indicating whether to use the MachineStore. Default is false

**Namespace:** MSBuild.ExtensionPack.Security

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

**See Also**

**Reference**

Certificate Class

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**CertificateStoreName Property**

Sets the name of the store. Defaults to My

- **AddressBook**: The store for other users
- **AuthRoot**: The store for third-party certificate authorities
- **CertificateAuthority**: The store for intermediate certificate authorities
- **Disallowed**: The store for revoked certificates
- **My**: The store for personal certificates
- **Root**: The store for trusted root certificate authorities
- **TrustedPeople**: The store for directly trusted people and resources
- **TrustedPublisher**: The store for directly trusted publishers

**Namespace**: MSBuild.ExtensionPack.Security

**Assembly**: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

- Certificate Class

---

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CertificateSubjectDName Property

The distinguished subject name of the certificate

**Namespace:** MSBuild.ExtensionPack.Security
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  **Version:** 4.0.0.0

See Also

Reference

Certificate Class

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CertificateThumbprint Property

Gets the thumbprint. Used to uniquely identify certificate in further tasks. The thumbprint can be used in place of distinguished name to identify a certificate.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

- Certificate Class

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**Overview**

This namespace currently hosts the Sql2008 tasks which provided various SMO functions.

**Helpful Links**

**SQL Server Management Objects (SMO)**

**Classes**

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
</table>
| AnalysisServices | **Valid TaskActions are:**  
  *ScriptAlter (Required: DatabaseItem, OutputFile)*  
  *ScriptCreate (Required: DatabaseItem, OutputFile)*  
  *ScriptDelete (Required: DatabaseItem, OutputFile)*  
  *Execute (Required: InputFile)*  
  *Process (Required: DatabaseItem Optional: ProcessType)*  
  **Remote Execution Support:** Yes |
| Database | **Valid TaskActions are:**  
  *Attach (Required: DatabaseItem Optional: See notes on metadata for DatabaseItem)*  
  *Backup (Required: DatabaseItem, DataFilePath Optional: BackupAction, CompressionOption, Incremental, NotificationInterval, NoPooling, StatementTimeout, CopyOnly)*  
  *CheckExists (Required: DatabaseItem Optional: NoPooling, StatementTimeout Output: Exists)*  
  *Create (Required: DatabaseItem Optional: Collation, NoPooling, DataFilePath, LogName, LogFilePath, FileGroupName, StatementTimeout)*  
  *Delete (Required: DatabaseItem Optional: NoPooling)* |
Statement(Timeout)

DeleteBackupHistory *(Required: DatabaseItem Optional: NoPooling, StatementTimeout)*

Detach *(Required: DatabaseItem Optional: See notes on metadata for DatabaseItem)*

GetConnectionCount *(Required: DatabaseItem Optional: NoPooling, StatementTimeout)*

GetInfo *(Required: DatabaseItem Optional: NoPooling, StatementTimeout)*

Rename *(Required: DatabaseItem (NewName metadata) Optional: NoPooling, StatementTimeout)*

Restore *(Required: DatabaseItem, DataFilePath Optional: ReplaceDatabase, NewDataFilePath, RestoreAction, Incremental, NotificationInterval, NoPooling, LogName, LogFilePath, PrimaryDataFileName, SecondaryDataFileName, SecondaryDataFilePath, StatementTimeout)*

Script *(Required: DatabaseItem, OutputFilePath Optional: NoPooling, StatementTimeout)*

ScriptData *(Required: DatabaseItem, OutputFilePath Optional: ScriptDrops, ScriptSchema, NoPooling, StatementTimeout)*

SetOffline *(Required: DatabaseItem Optional: NoPooling, StatementTimeout)*

SetOnline *(Required: DatabaseItem Optional: NoPooling, StatementTimeout)*

VerifyBackup *(Required: DataFilePath Optional: NoPooling, StatementTimeout)*

Remote Execution Support: Yes

<table>
<thead>
<tr>
<th>Server</th>
<th>Valid TaskActions are:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GetConnectionCount <em>(Optional: NoPooling Output: ConnectionCount)</em></td>
</tr>
<tr>
<td></td>
<td>GetInfo <em>(Optional: NoPooling Output: Information)</em></td>
</tr>
<tr>
<td></td>
<td>Remote Execution Support: Yes</td>
</tr>
</tbody>
</table>
Send comments on this topic to MSBuild ExtensionPack Feedback
**AnalysisServices Class**

**Valid TaskActions are:**

*ScriptAlter (Required: DatabaseItem, OutputFile)*

*ScriptCreate (Required: DatabaseItem, OutputFile)*

*ScriptDelete (Required: DatabaseItem, OutputFile)*

*Execute (Required: InputFile)*

*Process (Required: DatabaseItem Optional: ProcessType)*

**Remote Execution Support:** Yes

**Inheritance Hierarchy**

```
SystemObject  Microsoft.Build.UtilitiesTask
             MSBuild.ExtensionPackBaseTask
             MSBuild.ExtensionPack.Sql2008AnalysisServices
```

**Namespace:** MSBuild.ExtensionPack.Sql2008


The **AnalysisServices** type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Parachute] AnalysisServices</td>
<td></td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![DatabaseItem] DatabaseItem</td>
<td>Set the target database.</td>
</tr>
<tr>
<td>![InputFile] InputFile</td>
<td>Sets the InputFile containing query to execute</td>
</tr>
<tr>
<td>![OutputFile] OutputFile</td>
<td>Sets the OutputFile</td>
</tr>
</tbody>
</table>
Default is ProcessDefault.

Examples

See Also

Reference

MSBuild.ExtensionPack.Sql2008 Namespace
See Also

AnalysisServices Class
MSBuild.ExtensionPack.Sql2008 Namespace
The **AnalysisServices** type exposes the following members.

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DatabaseItem</td>
<td>Set the target database.</td>
</tr>
<tr>
<td>InputFile</td>
<td>Sets the InputFile containing query to execute</td>
</tr>
<tr>
<td>OutputFile</td>
<td>Sets the OutputFile</td>
</tr>
</tbody>
</table>

### See Also

- **AnalysisServices Class**
- **MSBuild.ExtensionPack.Sql2008 Namespace**

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AnalysisServicesDatabaseItem Property

Set the target database.


See Also

Reference
AnalysisServices Class
MSBuild.ExtensionPack.Sql2008 Namespace

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**AnalysisServicesInputFile Property**

Sets the InputFile containing query to execute

**Namespace:** MSBuild.ExtensionPack.Sql2008  

**See Also**

**Reference**  
AnalysisServices Class  
MSBuild.ExtensionPack.Sql2008 Namespace

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AnalysisServicesOutputFile Property

Sets the OutputFile

**Namespace:** MSBuild.ExtensionPack.Sql2008


**See Also**

Reference

AnalysisServices Class
MSBuild.ExtensionPack.Sql2008 Namespace

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**AnalysisServicesProcessType** Property


**Namespace:** MSBuild.ExtensionPack.Sql2008  

**See Also**

Reference

AnalysisServices Class  
MSBuild.ExtensionPack.Sql2008 Namespace

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Valid TaskActions are:

Attach (Required: DatabaseItem Optional: See notes on metadata for DatabaseItem)

Backup (Required: DatabaseItem, DataFilePath Optional: BackupAction, CompressionOption, Incremental, NotificationInterval, NoPooling, StatementTimeout, CopyOnly)

CheckExists (Required: DatabaseItem Optional: NoPooling, StatementTimeout Output: Exists)

Create (Required: DatabaseItem Optional: Collation, NoPooling, DataFilePath, LogName, LogFilePath, FileGroupName, StatementTimeout)

Delete (Required: DatabaseItem Optional: NoPooling, StatementTimeout)

DeleteBackupHistory (Required: DatabaseItem Optional: NoPooling, StatementTimeout)

Detach (Required: DatabaseItem Optional: See notes on metadata for DatabaseItem)

GetConnectionCount (Required: DatabaseItem Optional: NoPooling, StatementTimeout)

GetInfo (Required: DatabaseItem Optional: NoPooling, StatementTimeout)

Rename (Required: DatabaseItem (NewName metadata) Optional: NoPooling, StatementTimeout)

Restore (Required: DatabaseItem, DataFilePath Optional: ReplaceDatabase, NewDataFilePath, RestoreAction, Incremental, NotificationInterval, NoPooling, LogName, LogFilePath, PrimaryDataFileName, SecondaryDataFileName, SecondaryDataFilePath, StatementTimeout)

Script (Required: DatabaseItem, OutputFilePath Optional: NoPooling, StatementTimeout)

ScriptData (Required: DatabaseItem, OutputFilePath Optional: ScriptDrops, ScriptSchema, NoPooling, StatementTimeout)

SetOffline (Required: DatabaseItem Optional: NoPooling,
SetOnline (Required: DatabaseItem Optional: NoPooling, StatementTimeout)

VerifyBackup (Required: DataFilePath Optional: NoPooling, StatementTimeout)

Remote Execution Support: Yes

Inheritance Hierarchy

SystemObject  Microsoft.Build.UtilitiesTask
   MSBuild.ExtensionPackBaseTask
   MSBuild.ExtensionPack.Sql2008Database


The Database type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✤ Database</td>
<td></td>
</tr>
</tbody>
</table>

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✤ BackupAction</td>
<td>Sets the type of backup action to perform. Supports Database, Files and Log. Default is Database</td>
</tr>
<tr>
<td>✤ Collation</td>
<td>Sets the collation of the database.</td>
</tr>
<tr>
<td>✤ CompressionOption</td>
<td>Sets the compression option for the backup. Supports On, Off and Default. Default is Default.</td>
</tr>
<tr>
<td>✤ ConnectionCount</td>
<td>Gets the number of connections the database has open</td>
</tr>
<tr>
<td>✤ CopyOnly</td>
<td>Sets whether the backup is a copy-only backup. Default is false.</td>
</tr>
<tr>
<td>✤ DatabaseItem</td>
<td>Sets the database name. When using Attach, you can specify the following metadata: Owner, Files (semicolon delimited),</td>
</tr>
</tbody>
</table>
AttachOptions (Default None). When using Detach, you can specify the following metadata: UpdateStatistics, RemoveFulltextIndexFile (both default to false).

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DataFilePath</td>
<td>Sets the DataFilePath.</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the database exists.</td>
</tr>
<tr>
<td>FileGroupName</td>
<td>Sets the FileGroupName. Defaults to PRIMARY</td>
</tr>
<tr>
<td>Force</td>
<td>Set to true to force the creation of a database if it already exists.</td>
</tr>
<tr>
<td>Incremental</td>
<td>Set to true to perform an Incremental backup. Default is false.</td>
</tr>
<tr>
<td>Information</td>
<td>Gets the Information TaskItem. Each available property is added as metadata.</td>
</tr>
<tr>
<td>LogFilePath</td>
<td>Sets the LogFilePath.</td>
</tr>
<tr>
<td>LogName</td>
<td>Sets the Log Name. Defaults DatabaseItem.ItemSpec + &quot;_log&quot;</td>
</tr>
<tr>
<td>NewDataFilePath</td>
<td>Sets the NewDataFilePath.</td>
</tr>
<tr>
<td>NoPooling</td>
<td>Set to true to create a NonPooledConnection to the server. Default is false.</td>
</tr>
<tr>
<td>NotificationInterval</td>
<td>Sets the PercentCompleteNotification interval. Defaults to 10.</td>
</tr>
<tr>
<td>OutputFilePath</td>
<td>Sets the OutputFilePath.</td>
</tr>
<tr>
<td>PrimaryDataFileName</td>
<td>Sets the primary data file name.</td>
</tr>
<tr>
<td>RegexPattern</td>
<td>Sets the regex pattern.</td>
</tr>
<tr>
<td>ReplaceDatabase</td>
<td>A Boolean value that specifies whether a new image of the restored database will be created. If True, a new image of the database is created. The image is created regardless of the presence of an existing database with the same name. If False (default), a new image of the database is not created by the restore operation. The database targeted by the restore operation must exist on an instance of Microsoft SQL Server.</td>
</tr>
<tr>
<td>RestoreAction</td>
<td>Sets the type of restore action to perform. Supports Database, Files, Log, OnlineFiles, OnlinePage. Default is Database.</td>
</tr>
<tr>
<td>ScriptDrops</td>
<td>Sets ScriptingOptions for ScriptData TaskAction</td>
</tr>
<tr>
<td>ScriptSchema</td>
<td>Sets ScriptingOptions for ScriptData TaskAction</td>
</tr>
<tr>
<td>SecondaryDataFileName</td>
<td>Sets the secondary data file name. No default value.</td>
</tr>
<tr>
<td>SecondaryDataFilePath</td>
<td>Sets the SecondaryDataFilePath.</td>
</tr>
<tr>
<td>StatementTimeout</td>
<td>Sets the number of seconds before an operation times out. The default is not to specify this property on the connection.</td>
</tr>
</tbody>
</table>
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\..\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\.Common\MSBuild.ExtensionPack.tasks')"/>
  </PropertyGroup>
  <Import Project="$\(TPath\)"/>
  <Target Name="Default">
    <ItemGroup>
      <Database Include="ADatabase">
        <NewName>ADatabase2</NewName>
      </Database>
      <Database2 Include="ADatabase2">
        <NewName>ADatabase</NewName>
      </Database2>
      <Database3 Include="ADatabase3">
        <Owner>
          <AttachOptions>1</AttachOptions>
          <UpdateStatistics>true</UpdateStatistics>
          <RemoveFulltextIndexFile>true</RemoveFulltextIndexFile>
          <Files>C:\Program Files\Microsoft SQL</Files>
        </Owner>
      </Database3>
    </ItemGroup>
    <!-- Create Database -->
    <!-- Create Database -->
    <!-- Detach Database-->
    <!-- Attach Database-->
    <!-- Get information on a database -->
      <Output TaskParameter="Information" Item />
</Project>
<!-- All the database information properties
<Message Text="SpaceAvailable: %(AllInfo.SpaceAvailable)"
</Message>

<!-- ScriptData for tables matching Acc* name

<!-- Backup a database -->

<!-- Verify a database backup -->

<!-- Restore a database -->

<!-- Restore a database to a different location-->

<!-- Create a database -->

<!-- Create the database again, using Force-->

<!-- Check whether a database exists -->

<!-- Output TaskParameter="Exists" PropertyName-->

<Message Text="Database Exists: $(DoesExist)"
</Message>

<!-- Delete a database -->

<!-- Check whether a database exists -->

<!-- Output TaskParameter="Exists" PropertyName-->

<Message Text="Database Exists: $(DoesExist)"
</Message>

<!-- Get the number of active connections to a database-->

<!-- Output TaskParameter="ConnectionCount"-->

<Message Text="Database ConnectionCount: $(ConnectionCount)"
</Message>

<!-- Delete the backup history for a database-->

<!-- Set a database offline -->

<!-- Set a database online -->
<!-- Rename a database -->
<!-- Script a database to file -->
<!-- Restore a database to a new Name -->
</Target>
</Project>

See Also
Reference
MSBuild.ExtensionPack.Sql2008 Namespace

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Database Constructor


See Also

Reference
Database Class
MSBuild.ExtensionPack.Sql2008 Namespace

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The **Database** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BackupAction</td>
<td>Sets the type of backup action to perform. Supports Database, Files and Log. Default is Database</td>
</tr>
<tr>
<td>Collation</td>
<td>Sets the collation of the database.</td>
</tr>
<tr>
<td>CompressionOption</td>
<td>Sets the compression option for the backup. Supports On, Off and Default. Default is Default.</td>
</tr>
<tr>
<td>ConnectionCount</td>
<td>Gets the number of connections the database has open</td>
</tr>
<tr>
<td>CopyOnly</td>
<td>Sets whether the backup is a copy-only backup. Default is false.</td>
</tr>
<tr>
<td>DatabaseItem</td>
<td>Sets the database name. When using Attach, you can specify the following metadata: Owner, Files (semicolon delimited), AttachOptions (Default None). When using Detach, you can specify the following metadata: UpdateStatistics, RemoveFulltextIndexFile (both default to false).</td>
</tr>
<tr>
<td>DataFilePath</td>
<td>Sets the DataFilePath.</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the database exists</td>
</tr>
<tr>
<td>FileGroupName</td>
<td>Sets the FileGroupName. Defaults to PRIMARY</td>
</tr>
<tr>
<td>Force</td>
<td>Set to true to force the creation of a database if it already exists.</td>
</tr>
<tr>
<td>Incremental</td>
<td>Set to true to perform an Incremental backup. Default is false.</td>
</tr>
<tr>
<td>Information</td>
<td>Gets the Information TaskItem. Each available property is added as metadata.</td>
</tr>
<tr>
<td>LogFilePath</td>
<td>Sets the LogFilePath.</td>
</tr>
<tr>
<td>LogName</td>
<td>Sets the Log Name. Defaults DatabaseItem.ItemSpec + &quot;.log&quot;</td>
</tr>
<tr>
<td>NewDataFilePath</td>
<td>Sets the NewDataFilePath.</td>
</tr>
<tr>
<td>NoPooling</td>
<td>Set to true to create a NonPooledConnection to the server. Default is false.</td>
</tr>
<tr>
<td>NotificationInterval</td>
<td>Sets the PercentCompleteNotification interval. Defaults to 10.</td>
</tr>
<tr>
<td>OutputFilePath</td>
<td>Sets the OutputFilePath.</td>
</tr>
<tr>
<td>Property</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>PrimaryDataFileName</td>
<td>Sets the primary data file name.</td>
</tr>
<tr>
<td>RegexPattern</td>
<td>Sets the regex pattern.</td>
</tr>
<tr>
<td>ReplaceDatabase</td>
<td>A Boolean value that specifies whether a new image of the restored database will be created. If True, a new image of the database is created. The image is created regardless of the presence of an existing database with the same name. If False (default), a new image of the database is not created by the restore operation. The database targeted by the restore operation must exist on an instance of Microsoft SQL Server.</td>
</tr>
<tr>
<td>RestoreAction</td>
<td>Sets the type of restore action to perform. Supports Database, Files, Log, OnlineFiles, OnlinePage. Default is Database</td>
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<tr>
<td>ScriptDrops</td>
<td>Sets ScriptingOptions for ScriptData TaskAction</td>
</tr>
<tr>
<td>ScriptSchema</td>
<td>Sets ScriptingOptions for ScriptData TaskAction</td>
</tr>
<tr>
<td>SecondaryDataFileName</td>
<td>Sets the secondary data file name. No default value.</td>
</tr>
<tr>
<td>SecondaryDataFilePath</td>
<td>Sets the SecondaryDataFilePath.</td>
</tr>
<tr>
<td>StatementTimeout</td>
<td>Sets the number of seconds before an operation times out. The default is not to specify this property on the connection.</td>
</tr>
</tbody>
</table>

Top

See Also

Reference
DataBase Class
MSBuild.ExtensionPack.Sql2008 Namespace

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**DatabaseBackupAction Property**

Sets the type of backup action to perform. Supports Database, Files and Log. Default is Database

**Namespace:** MSBuild.ExtensionPack.Sql2008  
Version: 4.0.0.0

**See Also**

Reference

Database Class
MSBuild.ExtensionPack.Sql2008 Namespace

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**DatabaseCollation Property**

Sets the collation of the database.

**Namespace:** MSBuild.ExtensionPack.Sql2008  

**See Also**

Reference  
Database Class  
MSBuild.ExtensionPack.Sql2008 Namespace

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**DatabaseCompressionOption Property**

Sets the compression option for the backup. Supports On, Off and Default. Default is Default.

**Namespace:** MSBuild.ExtensionPack.Sql2008  

**See Also**

Reference
- Database Class

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**DatabaseConnectionCount Property**

Gets the number of connections the database has open

**Namespace:** MSBuild.ExtensionPack.Sql2008  
**Assembly:** MSBuild.ExtensionPack.Sql2008  

**See Also**

Reference
- Database Class  

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**DatabaseCopyOnly Property**

Sets whether the backup is a copy-only backup. Default is false.

**Namespace:**  MSBuild.ExtensionPack.Sql2008  

**See Also**

Reference  
Database Class  
MSBuild.ExtensionPack.Sql2008 Namespace

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DatabaseItem Property

Sets the database name. When using Attach, you can specify the following metadata: Owner, Files (semicolon delimited), AttachOptions (Default None). When using Detach, you can specify the following metadata: UpdateStatistics, RemoveFulltextIndexFile (both default to false).


See Also

Database Class
MSBuild.ExtensionPack.Sql2008 Namespace
DatabaseDataFilePath

Property

Sets the DataFilePath.


See Also

See Also

Reference

Database Class
MSBuild.ExtensionPack.Sql2008 Namespace

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**DatabaseExists Property**  MSBuild Extension Pack Help 4.0.12.0

Gets whether the database exists

**Namespace:** MSBuild.ExtensionPack.Sql2008  
**Assembly:** MSBuild.ExtensionPack.Sql2008 (in MSBuild.ExtensionPack.Sql2008.dll)  **Version:** 4.0.0.0

---

**See Also**

**Reference**
- Database Class

---

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**DatabaseFileGroupName Property**

Sets the FileGroupName. Defaults to PRIMARY

**Namespace:** MSBuild.ExtensionPack.Sql2008  

**See Also**

Reference
- Database Class  

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DatabaseForce Property  MSBuild Extension Pack Help 4.0.12.0

Set to true to force the creation of a database if it already exists.


See Also

Reference
Database Class
MSBuild.ExtensionPack.Sql2008 Namespace

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**DatabaseIncremental Property**

Set to true to perform an Incremental backup. Default is false.

**Namespace:** MSBuild.ExtensionPack.Sql2008  

---

**See Also**

- **Reference**
  - Database Class

---

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DatabaseInformation Property

Gets the Information TaskItem. Each available property is added as metadata.


See Also

See Also:
- Database Class

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### DatabaseLogFilePath Property

Sets the LogFilePath.

**Namespace:** MSBuild.ExtensionPack.Sql2008  

#### See Also

**Reference**

- Database Class

---

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DatabaseLogName Property

Sets the Log Name. Defaults DatabaseItem.ItemSpec + "_log"


See Also

Reference
Database Class
MSBuild.ExtensionPack.Sql2008 Namespace

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DatabaseNewDataFilePath Property

Sets the NewDataFilePath.

**Namespace:** MSBuild.ExtensionPack.Sql2008


See Also

Reference

Database Class

MSBuild.ExtensionPack.Sql2008 Namespace

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**DatabaseNoPooling Property**

Set to true to create a NonPooledConnection to the server. Default is false.

**Namespace:** MSBuild.ExtensionPack.Sql2008  

**See Also**

Reference

Database Class  
MSBuild.ExtensionPack.Sql2008 Namespace

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DatabaseNotificationInterval Property

Sets the PercentCompleteNotification interval. Defaults to 10.


See Also
Reference
Database Class
MSBuild.ExtensionPack.Sql2008 Namespace

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DatabaseOutputFilePath Property

Sets the OutputFilePath.

**Namespace:** MSBuild.ExtensionPack.Sql2008


See Also

Reference

Database Class
MSBuild.ExtensionPack.Sql2008 Namespace

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**DatabasePrimaryDataFileName Property**

Sets the primary data file name.

**Namespace:** MSBuild.ExtensionPack.Sql2008  

---

**See Also**

**Reference**

- Database Class

---

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# DatabaseRegexPattern Property

Sets the regex pattern.

**Namespace:** MSBuild.ExtensionPack.Sql2008  

## See Also

**Reference**
- Database Class
**DatabaseReplaceDatabase Property**

A Boolean value that specifies whether a new image of the restored database will be created. If True, a new image of the database is created. The image is created regardless of the presence of an existing database with the same name. If False (default), a new image of the database is not created by the restore operation. The database targeted by the restore operation must exist on an instance of Microsoft SQL Server.

**Namespace:** MSBuild.ExtensionPack.Sql2008  

**See Also**

**Reference**  
**Database Class**  
**MSBuild.ExtensionPack.Sql2008 Namespace**

---

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# DatabaseRestoreAction Property

Sets the type of restore action to perform. Supports Database, Files, Log, OnlineFiles, OnlinePage. Default is Database

|------------|-------------------------------|

## See Also

- **Database Class**
- **MSBuild.ExtensionPack.Sql2008 Namespace**

---

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DatabaseScriptDrops Property

Sets ScriptingOptions for ScriptData TaskAction


See Also

Reference
Database Class
MSBuild.ExtensionPack.Sql2008 Namespace

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DatabaseScriptSchema Property

Sets ScriptingOptions for ScriptData TaskAction

**Namespace:** MSBuild.ExtensionPack.Sql2008


See Also

Reference

[Database Class](#)
[MSBuild.ExtensionPack.Sql2008 Namespace](#)

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DatabaseSecondaryDataFileName  Property

Sets the secondary data file name. No default value.

**Namespace:** MSBuild.ExtensionPack.Sql2008  
**Version:** 4.0.0.0

**See Also**

**Reference**

Database Class  
MSBuild.ExtensionPack.Sql2008 Namespace

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**DatabaseSecondaryDataFilePath Property**

Sets the SecondaryDataFilePath.

**Namespace:** MSBuild.ExtensionPack.Sql2008  

**See Also**

Reference  
Database Class  
MSBuild.ExtensionPack.Sql2008 Namespace

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DatabaseStatementTimeout Property

Sets the number of seconds before an operation times out. The default is not to specify this property on the connection.


See Also

Reference

Database Class
MSBuild.ExtensionPack.Sql2008 Namespace

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Server Class

Valid TaskActions are:

GetConnectionCount (Optional: NoPooling Output: ConnectionCount)

GetInfo (Optional: NoPooling Output: Information)

Remote Execution Support: Yes

Inheritance Hierarchy

SystemObject  Microsoft.BuildUtilitiesTask
    MSBuild.ExtensionPackBaseTask


The Server type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Server</td>
<td></td>
</tr>
</tbody>
</table>

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ConnectionCount</td>
<td>Gets the number of connections the server has open</td>
</tr>
<tr>
<td>Information</td>
<td>Gets the Information TaskItem. Each available property is added as metadata.</td>
</tr>
<tr>
<td>NoPooling</td>
<td>Set to true to create a NonPooledConnection to the server. Default is false.</td>
</tr>
</tbody>
</table>

Examples
<Project ToolsVersion="4.0" DefaultTargets="Default"
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks')"></TPath Condition>
  </PropertyGroup>
  <Import Project="$(TPath)="/>
  <Target Name="Default">
    <!-- Get information for a server, not that -->
      <Output TaskParameter="Information" ItemName="AllInfo.PhysicalMemory"></Output>
      <!-- All the server information properties are available as metadata on the Information item -->
        <Output TaskParameter="ConnectionCount" PropertyName="ConnectionCount"></Output>
        <Message Text="Server ConnectionCount: $(ConnectionCount)"></Message>
    <!-- Get all the active connections to the server -->
    <Output TaskParameter="ConnectionCount"></Output>
    <Message Text="Server ConnectionCount: $(ConnectionCount)"></Message>
  </Target>
</Project>

See Also

Reference
MSBuild.ExtensionPack.Sql2008 Namespace

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Server Constructor


See Also

Reference
Server Class
MSBuild.ExtensionPack.Sql2008 Namespace

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The **Server** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ConnectionCount</strong></td>
<td>Gets the number of connections the server has open</td>
</tr>
<tr>
<td><strong>Information</strong></td>
<td>Gets the Information TaskItem. Each available property is added as metadata.</td>
</tr>
<tr>
<td><strong>NoPooling</strong></td>
<td>Set to true to create a NonPooledConnection to the server. Default is false.</td>
</tr>
</tbody>
</table>

## See Also

**Reference**
- **Server Class**
- **MSBuild.ExtensionPack.Sql2008 Namespace**

---

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ServerConnectionCount Property

Gets the number of connections the server has open


See Also

Reference
Server Class
MSBuild.ExtensionPack.Sql2008 Namespace

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ServerInformation Property

Gets the Information TaskItem. Each available property is added as metadata.


See Also

See Also

Reference

Server Class
MSBuild.ExtensionPack.Sql2008 Namespace

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**ServerNoPooling**

**Property**

Set to true to create a NonPooledConnection to the server. Default is false.

**Namespace:** MSBuild.ExtensionPack.Sql2008  

**See Also**

**Reference**

*Server Class*

*MSBuild.ExtensionPack.Sql2008 Namespace*

---

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### AnalysisServices

**Valid TaskActions are:**
- `ScriptAlter` *(Required: DatabaseItem, OutputFile)*
- `ScriptCreate` *(Required: DatabaseItem, OutputFile)*
- `ScriptDelete` *(Required: DatabaseItem, OutputFile)*
- `Execute` *(Required: InputFile)*
- `Process` *(Required: DatabaseItem Optional: ProcessType)*
- **Remote Execution Support:** Yes

### Database

**Valid TaskActions are:**
- `Attach` *(Required: DatabaseItem Optional: See notes on metadata for DatabaseItem)*
  
  `Backup` *(Required: DatabaseItem, DataFilePath Optional: BackupAction, CompressionOption, Incremental, NotificationInterval, NoPooling, StatementTimeout, CopyOnly)*

  `CheckExists` *(Required: DatabaseItem Optional: NoPooling, StatementTimeout Output: Exists)*

  `Create` *(Required: DatabaseItem Optional: Collation, NoPooling, DataFilePath, LogName, LogFilePath, FileGroupName, StatementTimeout)*

  `Delete` *(Required: DatabaseItem Optional: NoPooling, StatementTimeout)*

  `DeleteBackupHistory` *(Required: DatabaseItem Optional: NoPooling, StatementTimeout)*

  `Detach` *(Required: DatabaseItem Optional: See notes on metadata for DatabaseItem)*

  `GetConnectionCount` *(Required: DatabaseItem Optional: NoPooling, StatementTimeout)*

  `GetInfo` *(Required: DatabaseItem Optional: NoPooling, StatementTimeout)*
<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rename</strong></td>
<td><strong>Required:</strong> <code>DatabaseItem</code> <em>(NewName metadata)</em>  <strong>Optional:</strong> NoPooling, StatementTimeout</td>
</tr>
<tr>
<td><strong>Restore</strong></td>
<td><strong>Required:</strong> <code>DatabaseItem</code>, <code>DataFilePath</code>  <strong>Optional:</strong> ReplaceDatabase, <code>NewDataFilePath</code>, <code>RestoreAction</code>, Incremental, NotificationInterval, NoPooling, <code>LogName</code>, <code>LogFilePath</code>, PrimaryDataFileName, SecondaryDataFileName, SecondaryDataFilePath, StatementTimeout</td>
</tr>
<tr>
<td><strong>Script</strong></td>
<td><strong>Required:</strong> <code>DatabaseItem</code>, <code>OutputFilePath</code>  <strong>Optional:</strong> NoPooling, StatementTimeout</td>
</tr>
<tr>
<td><strong>ScriptData</strong></td>
<td><strong>Required:</strong> <code>DatabaseItem</code>, <code>OutputFilePath</code>  <strong>Optional:</strong> ScriptDrops, ScriptSchema, NoPooling, StatementTimeout</td>
</tr>
<tr>
<td><strong>SetOffline</strong></td>
<td><strong>Required:</strong> <code>DatabaseItem</code>  <strong>Optional:</strong> NoPooling, StatementTimeout</td>
</tr>
<tr>
<td><strong>SetOnline</strong></td>
<td><strong>Required:</strong> <code>DatabaseItem</code>  <strong>Optional:</strong> NoPooling, StatementTimeout</td>
</tr>
<tr>
<td><strong>VerifyBackup</strong></td>
<td><strong>Required:</strong> <code>DataFilePath</code>  <strong>Optional:</strong> NoPooling, StatementTimeout</td>
</tr>
</tbody>
</table>

**Remote Execution Support:** Yes

<table>
<thead>
<tr>
<th>Server</th>
<th>Valid TaskActions are:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>GetConnectionCount</strong> <em>(Optional: NoPooling  Output: ConnectionCount)</em></td>
</tr>
<tr>
<td></td>
<td><strong>GetInfo</strong> <em>(Optional: NoPooling  Output: Information)</em></td>
</tr>
</tbody>
</table>

**Remote Execution Support:** Yes
**AnalysisServices Class**

MSBuild Extension Pack Help 4.0.12.0

**Valid TaskActions are:**

*ScriptAlter (Required: DatabaseItem, OutputFile)*

*ScriptCreate (Required: DatabaseItem, OutputFile)*

*ScriptDelete (Required: DatabaseItem, OutputFile)*

*Execute (Required: InputFile)*

*Process (Required: DatabaseItem Optional: ProcessType)*

**Remote Execution Support:** Yes

**Inheritance Hierarchy**

SystemObject  Microsoft.Build.UtilitiesTask  
MSBuild.ExtensionPackBaseTask  
MSBuild.ExtensionPack.Sql2012AnalysisServices

**Namespace:** MSBuild.ExtensionPack.Sql2012


The **AnalysisServices** type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AnalysisServices</td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DatabaseItem</td>
<td>Set the target database.</td>
</tr>
<tr>
<td>InputFile</td>
<td>Sets the InputFile containing query to execute</td>
</tr>
<tr>
<td>OutputFile</td>
<td>Sets the OutputFile</td>
</tr>
<tr>
<td>ProcessType</td>
<td>Sets the ProcessType (enum Microsoft.AnalysisServices.ProcessType).</td>
</tr>
</tbody>
</table>
Default is ProcessDefault.

Examples

See Also

Reference

MSBuild.ExtensionPack.Sql2012 Namespace

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AnalysisServices Constructor

**Namespace:** MSBuild.ExtensionPack.Sql2012  

**See Also**

Reference

- AnalysisServices Class

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AnalysisServices Properties

The AnalysisServices type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DatabaseItem</td>
<td>Set the target database.</td>
</tr>
<tr>
<td>InputFile</td>
<td>Sets the InputFile containing query to execute</td>
</tr>
<tr>
<td>OutputFile</td>
<td>Sets the OutputFile</td>
</tr>
</tbody>
</table>

## See Also

Reference

AnalysisServices Class

MSBuild.ExtensionPack.Sql2012 Namespace
**AnalysisServicesDatabaseItem**  
**Property**

Set the target database.

**Namespace:**  

**Assembly:**  

**See Also**

- AnalysisServices Class

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**AnalysisServicesInputFile Property**

Sets the InputFile containing query to execute

**Namespace:** MSBuild.ExtensionPack.Sql2012  
**Version:** 4.0.0.0

### See Also

**Reference**

- AnalysisServices Class

---

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AnalysisServicesOutputFile Property

Sets the OutputFile

**Namespace:** MSBuild.ExtensionPack.Sql2012


See Also

Reference

AnalysisServices Class

MSBuild.ExtensionPack.Sql2012 Namespace

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**AnalysisServicesProcessType Property**


**Namespace:** MSBuild.ExtensionPack.Sql2012  
**Version:** 4.0.0.0

**See Also**

Reference  
AnalysisServices Class  
MSBuild.ExtensionPack.Sql2012 Namespace

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Database Class

Valid TaskActions are:

*Attach* *(Required: DatabaseItem Optional: See notes on metadata for DatabaseItem)*

*Backup* *(Required: DatabaseItem, DataFilePath Optional: BackupAction, CompressionOption, Incremental, NotificationInterval, NoPooling, StatementTimeout, CopyOnly)*

*CheckExists* *(Required: DatabaseItem Optional: NoPooling, StatementTimeout Output: Exists)*

*Create* *(Required: DatabaseItem Optional: Collation, NoPooling, DataFilePath, LogName, LogFilePath, FileGroupName, StatementTimeout)*

*Delete* *(Required: DatabaseItem Optional: NoPooling, StatementTimeout)*

*DeleteBackupHistory* *(Required: DatabaseItem Optional: NoPooling, StatementTimeout)*

*Detach* *(Required: DatabaseItem Optional: See notes on metadata for DatabaseItem)*

*GetConnectionCount* *(Required: DatabaseItem Optional: NoPooling, StatementTimeout)*

*GetInfo* *(Required: DatabaseItem Optional: NoPooling, StatementTimeout)*

*Rename* *(Required: DatabaseItem (NewName metadata) Optional: NoPooling, StatementTimeout)*

*Restore* *(Required: DatabaseItem, DataFilePath Optional: ReplaceDatabase, NewDataFilePath, RestoreAction, Incremental, NotificationInterval, NoPooling, LogName, LogFilePath, PrimaryDataFileName, SecondaryDataFileName, SecondaryDataFilePath, StatementTimeout)*

*Script* *(Required: DatabaseItem, OutputFilePath Optional: NoPooling, StatementTimeout)*

*ScriptData* *(Required: DatabaseItem, OutputFilePath Optional: ScriptDrops, ScriptSchema, NoPooling, StatementTimeout)*

*SetOffline* *(Required: DatabaseItem Optional: NoPooling, StatementTimeout)*
Inheritance Hierarchy

SystemObject  Microsoft.Build.UtilitiesTask
   MSBuild.ExtensionPackBaseTask
      MSBuild.ExtensionPack.Sql2012Database


The Database type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Database</td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BackupAction</td>
<td>Sets the type of backup action to perform. Supports Database, Files and Log. Default is Database</td>
</tr>
<tr>
<td>Collation</td>
<td>Sets the collation of the database.</td>
</tr>
<tr>
<td>CompressionOption</td>
<td>Sets the compression option for the backup. Supports On, Off and Default. Default is Default.</td>
</tr>
<tr>
<td>ConnectionCount</td>
<td>Gets the number of connections the database has open</td>
</tr>
<tr>
<td>CopyOnly</td>
<td>Sets whether the backup is a copy-only backup. Default is false.</td>
</tr>
<tr>
<td>DatabaseItem</td>
<td>Sets the database name. When using Attach, you can specify the following metadata: Owner, Files (semicolon delimited),</td>
</tr>
</tbody>
</table>
AttachOptions (Default None). When using Detach, you can specify the following metadata: UpdateStatistics, RemoveFulltextIndexFile (both default to false).

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DataFilePath</td>
<td>Sets the DataFilePath.</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the database exists</td>
</tr>
<tr>
<td>FileGroupName</td>
<td>Sets the FileGroupName. Defaults to PRIMARY</td>
</tr>
<tr>
<td>Force</td>
<td>Set to true to force the creation of a database if it already exists.</td>
</tr>
<tr>
<td>Incremental</td>
<td>Set to true to perform an Incremental backup. Default is false.</td>
</tr>
<tr>
<td>Information</td>
<td>Gets the Information TaskItem. Each available property is added as metadata.</td>
</tr>
<tr>
<td>LogFilePath</td>
<td>Sets the LogFilePath.</td>
</tr>
<tr>
<td>LogName</td>
<td>Sets the Log Name. Defaults DatabaseItem.ItemSpec + &quot;_log&quot;</td>
</tr>
<tr>
<td>NewDataFilePath</td>
<td>Sets the NewDataFilePath.</td>
</tr>
<tr>
<td>NoPooling</td>
<td>Set to true to create a NonPooledConnection to the server. Default is false.</td>
</tr>
<tr>
<td>NotificationInterval</td>
<td>Sets the PercentCompleteNotification interval. Defaults to 10.</td>
</tr>
<tr>
<td>OutputFilePath</td>
<td>Sets the OutputFilePath.</td>
</tr>
<tr>
<td>PrimaryDataFileName</td>
<td>Sets the primary data file name.</td>
</tr>
<tr>
<td>RegexPattern</td>
<td>Sets the regex pattern.</td>
</tr>
<tr>
<td>ReplaceDatabase</td>
<td>A Boolean value that specifies whether a new image of the restored database will be created. If True, a new image of the database is created. The image is created regardless of the presence of an existing database with the same name. If False (default), a new image of the database is not created by the restore operation. The database targeted by the restore operation must exist on an instance of Microsoft SQL Server.</td>
</tr>
<tr>
<td>RestoreAction</td>
<td>Sets the type of restore action to perform. Supports Database, Files, Log, OnlineFiles, OnlinePage. Default is Database</td>
</tr>
<tr>
<td>ScriptDrops</td>
<td>Sets ScriptingOptions for ScriptData TaskAction</td>
</tr>
<tr>
<td>ScriptSchema</td>
<td>Sets ScriptingOptions for ScriptData TaskAction</td>
</tr>
<tr>
<td>SecondaryDataFileName</td>
<td>Sets the secondary data file name. No default value.</td>
</tr>
<tr>
<td>SecondaryDataFilePath</td>
<td>Sets the SecondaryDataFilePath.</td>
</tr>
<tr>
<td>StatementTimeout</td>
<td>Sets the number of seconds before an operation times out. The default is not to specify this property on the connection.</td>
</tr>
</tbody>
</table>
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists($(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks)"/>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <ItemGroup>
      <Database Include="ADatabase">
        <NewName>ADatabase2</NewName>
      </Database>
      <Database Include="ADatabase2">
        <NewName>ADatabase</NewName>
      </Database>
      <Database Include="ADatabase3">
        <Owner></Owner>
        <AttachOptions>1</AttachOptions>
        <UpdateStatistics>true</UpdateStatistics>
        <RemoveFulltextIndexFile>true</RemoveFulltextIndexFile>
        <Files>C:\Program Files\Microsoft SQL</Files>
      </Database>
    </ItemGroup>
    <!-- Create Database -->
    <!-- Create Database -->
    <!-- Detach Database-->
    <!-- Attach Database-->
    <!-- Get information on a database -->
    <Output TaskParameter="Information" Item="Information" />
  </Target>
</Project>
<!-- All the database information properties -->
<Message Text="SpaceAvailable: %(AllInfo.SpaceAvailable)"
<!-- ScriptData for tables matching Acc* nam -->
<!-- Backup a database -->
<!-- Verify a database backup -->
<!-- Restore a database -->
<!-- Restore a database to a different locat -->
<!-- Create a database -->
<!-- Create the database again, using Force -->
<!-- Check whether a database exists -->
      <Output TaskParameter="Exists" PropertyN
<Message Text="Database Exists: $(DoesExist)"
<!-- Delete a database -->
<!-- Check whether a database exists -->
      <Output TaskParameter="Exists" PropertyN
<Message Text="Database Exists: $(DoesExist)"
<!-- Get the number of active connections to -->
      <Output TaskParameter="ConnectionCount"
<Message Text="Database ConnectionCount: $(C
<!-- Delete the backup history for a databas -->
<!-- Set a database offline -->
<!-- Set a database online -->
<!-- Rename a database -->
<!-- Script a database to file -->
<!-- Restore a database to a new Name -->
</Target>
</Project>

See Also
Reference
MSBuild.ExtensionPack.Sql2012 Namespace
Database Constructor


See Also

Reference
Database Class
MSBuild.ExtensionPack.Sql2012 Namespace

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The **Database** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BackupAction</strong></td>
<td>Sets the type of backup action to perform. Supports Database, Files and Log. Default is Database</td>
</tr>
<tr>
<td><strong>Collation</strong></td>
<td>Sets the collation of the database.</td>
</tr>
<tr>
<td><strong>CompressionOption</strong></td>
<td>Sets the compression option for the backup. Supports On, Off and Default. Default is Default.</td>
</tr>
<tr>
<td><strong>ConnectionCount</strong></td>
<td>Gets the number of connections the database has open</td>
</tr>
<tr>
<td><strong>CopyOnly</strong></td>
<td>Sets whether the backup is a copy-only backup. Default is false.</td>
</tr>
<tr>
<td><strong>DatabaseItem</strong></td>
<td>Sets the database name. When using Attach, you can specify the following metadata: Owner, Files (semicolon delimited), AttachOptions (Default None). When using Detach, you can specify the following metadata: UpdateStatistics, RemoveFulltextIndexFile (both default to false).</td>
</tr>
<tr>
<td><strong>DataFilePath</strong></td>
<td>Sets the DataFilePath.</td>
</tr>
<tr>
<td><strong>Exists</strong></td>
<td>Gets whether the database exists</td>
</tr>
<tr>
<td><strong>FileGroupName</strong></td>
<td>Sets the FileGroupName. Defaults to PRIMARY</td>
</tr>
<tr>
<td><strong>Force</strong></td>
<td>Set to true to force the creation of a database if it already exists.</td>
</tr>
<tr>
<td><strong>Incremental</strong></td>
<td>Set to true to perform an Incremental backup. Default is false.</td>
</tr>
<tr>
<td><strong>Information</strong></td>
<td>Gets the Information TaskItem. Each available property is added as metadata.</td>
</tr>
<tr>
<td><strong>LogFilePath</strong></td>
<td>Sets the LogFilePath.</td>
</tr>
<tr>
<td><strong>LogName</strong></td>
<td>Sets the Log Name. Defaults DatabaseItem.ItemSpec + &quot;_log&quot;</td>
</tr>
<tr>
<td><strong>NewDataFilePath</strong></td>
<td>Sets the NewDataFilePath.</td>
</tr>
<tr>
<td><strong>NoPooling</strong></td>
<td>Set to true to create a NonPooledConnection to the server. Default is false.</td>
</tr>
<tr>
<td><strong>NotificationInterval</strong></td>
<td>Sets the PercentCompleteNotification interval. Defaults to 10.</td>
</tr>
<tr>
<td><strong>OutputFilePath</strong></td>
<td>Sets the OutputFilePath.</td>
</tr>
<tr>
<td><strong>PrimaryDataFileName</strong></td>
<td>Sets the primary data file name.</td>
</tr>
<tr>
<td>--------------------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td><strong>RegexPattern</strong></td>
<td>Sets the regex pattern.</td>
</tr>
<tr>
<td><strong>ReplaceDatabase</strong></td>
<td>A Boolean value that specifies whether a new image of the restored database will be created. If True, a new image of the database is created. The image is created regardless of the presence of an existing database with the same name. If False (default), a new image of the database is not created by the restore operation. The database targeted by the restore operation must exist on an instance of Microsoft SQL Server.</td>
</tr>
<tr>
<td><strong>RestoreAction</strong></td>
<td>Sets the type of restore action to perform. Supports Database, Files, Log, OnlineFiles, OnlinePage. Default is Database</td>
</tr>
<tr>
<td><strong>ScriptDrops</strong></td>
<td>Sets ScriptingOptions for ScriptData TaskAction</td>
</tr>
<tr>
<td><strong>ScriptSchema</strong></td>
<td>Sets ScriptingOptions for ScriptData TaskAction</td>
</tr>
<tr>
<td><strong>SecondaryDataFileName</strong></td>
<td>Sets the secondary data file name. No default value.</td>
</tr>
<tr>
<td><strong>SecondaryDataFilePath</strong></td>
<td>Sets the SecondaryDataFilePath.</td>
</tr>
<tr>
<td><strong>StatementTimeout</strong></td>
<td>Sets the number of seconds before an operation times out. The default is not to specify this property on the connection.</td>
</tr>
</tbody>
</table>

**See Also**

Reference

Database Class
MSBuild.ExtensionPack.Sql2012 Namespace

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**DatabaseBackupAction**

Sets the type of backup action to perform. Supports Database, Files and Log. Default is Database

**Namespace:** MSBuild.ExtensionPack.Sql2012  

**See Also**

Reference  
Database Class  
MSBuild.ExtensionPack.Sql2012 Namespace

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DatabaseCollation Property

Sets the collation of the database.

**Namespace:** MSBuild.ExtensionPack.Sql2012  

See Also

**Reference**

Database Class  
MSBuild.ExtensionPack.Sql2012 Namespace

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**DatabaseCompressionOption Property**

Sets the compression option for the backup. Supports On, Off and Default. Default is Default.

**Namespace:** MSBuild.ExtensionPack.Sql2012  

**See Also**

Reference  
**Database Class**  
MSBuild.ExtensionPack.Sql2012 Namespace

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**DatabaseConnectionCount**  
**Property**

Gets the number of connections the database has open

**Namespace:** MSBuild.ExtensionPack.Sql2012  
**Version:** 4.0.0.0

**See Also**

Reference

- Database Class

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DatabaseCopyOnly Property

Sets whether the backup is a copy-only backup. Default is false.


See Also

Reference
Database Class
MSBuild.ExtensionPack.Sql2012 Namespace

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**DatabaseItem**

Sets the database name. When using Attach, you can specify the following metadata: Owner, Files (semicolon delimited), AttachOptions (Default None). When using Detach, you can specify the following metadata: UpdateStatistics, RemoveFulltextIndexFile (both default to false).

**Namespace:** MSBuild.ExtensionPack.Sql2012  

See Also

- Database Class

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DatabaseDataFilePath Property

Sets the DataFilePath.

**Namespace:** MSBuild.ExtensionPack.Sql2012


**See Also**

Reference

- Database Class

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**DatabaseExists Property**  MSBuild Extension Pack Help 4.0.12.0

Gets whether the database exists

**Namespace:** MSBuild.ExtensionPack.Sql2012  
**Version:** 4.0.0.0

---

**See Also**

Reference  
Database Class  
MSBuild.ExtensionPack.Sql2012 Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**DatabaseFileGroupName Property**

Sets the FileGroupName. Defaults to PRIMARY

**Namespace:** MSBuild.ExtensionPack.Sql2012


**See Also**

Reference

Database Class

MSBuild.ExtensionPack.Sql2012 Namespace

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**DatabaseForce Property**  MSBuild Extension Pack Help 4.0.12.0

Set to true to force the creation of a database if it already exists.

**Namespace:** MSBuild.ExtensionPack.Sql2012  

**See Also**

*Reference*

- Database Class

---

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**Database Incremental Property**

Set to true to perform an Incremental backup. Default is false.

**Namespace:** MSBuild.ExtensionPack.Sql2012  

**See Also**

- Database Class

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**DatabaseInformation Property**

Gets the Information TaskItem. Each available property is added as metadata.

**Namespace:** MSBuild.ExtensionPack.Sql2012  

**See Also**

Reference

Database Class  
MSBuild.ExtensionPack.Sql2012 Namespace

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**DatabaseLogFilePath Property**

Sets the LogFilePath.

**Namespace:** MSBuild.ExtensionPack.Sql2012


---

**See Also**

**Reference**

*Database Class*
*MSBuild.ExtensionPack.Sql2012 Namespace*

---

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**DatabaseLogName Property**

Sets the Log Name. Defaults DatabaseItem.ItemSpec + "_log"

**Namespace:** MSBuild.ExtensionPack.Sql2012  

**See Also**

Reference

Database Class  
MSBuild.ExtensionPack.Sql2012 Namespace
**DatabaseNewDataFilePath**

Sets the NewDataFilePath.

**Namespace:** MSBuild.ExtensionPack.Sql2012  

**See Also**

**Reference**

- Database Class

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**DatabaseNoPooling Property**

Set to true to create a NonPooledConnection to the server. Default is false.

**Namespace:** MSBuild.ExtensionPack.Sql2012  

### See Also

**Reference**

- Database Class  

---

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**DatabaseNotificationInterval Property**

Sets the PercentCompleteNotification interval. Defaults to 10.

**Namespace:** MSBuild.ExtensionPack.Sql2012  

**See Also**

Reference  
Database Class  
MSBuild.ExtensionPack.Sql2012 Namespace

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**DatabaseOutputFilePath Property**

Sets the OutputFilePath.

**Namespace:** MSBuild.ExtensionPack.Sql2012  

**See Also**

*Reference*

Database Class  
MSBuild.ExtensionPack.Sql2012 Namespace

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DatabasePrimaryDataFileName Property

Sets the primary data file name.


See Also

Database Class
MSBuild.ExtensionPack.Sql2012 Namespace
DatabaseRegexPattern Property

Sets the regex pattern.

**Namespace:** MSBuild.ExtensionPack.Sql2012  

See Also

Reference

Database Class
MSBuild.ExtensionPack.Sql2012 Namespace

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DatabaseReplaceDatabase Property

A Boolean value that specifies whether a new image of the restored database will be created. If True, a new image of the database is created. The image is created regardless of the presence of an existing database with the same name. If False (default), a new image of the database is not created by the restore operation. The database targeted by the restore operation must exist on an instance of Microsoft SQL Server.

**Namespace:** MSBuild.ExtensionPack.Sql2012  

See Also

- Database Class

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**DatabaseRestoreAction Property**

Sets the type of restore action to perform. Supports Database, Files, Log, OnlineFiles, OnlinePage. Default is Database.

**Namespace:** MSBuild.ExtensionPack.Sql2012  

**See Also**

Reference

Database Class  
MSBuild.ExtensionPack.Sql2012 Namespace

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DatabaseScriptDrops Property

Sets ScriptingOptions for ScriptData TaskAction

**Namespace:** MSBuild.ExtensionPack.Sql2012


**See Also**

**Reference**

Database Class

MSBuild.ExtensionPack.Sql2012 Namespace

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DatabaseScriptSchema Property

Sets ScriptingOptions for ScriptData TaskAction


See Also

Reference
Database Class
MSBuild.ExtensionPack.Sql2012 Namespace

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**DatabaseSecondaryDataFileName Property**

Sets the secondary data file name. No default value.

**Namespace:** MSBuild.ExtensionPack.Sql2012  

**See Also**

Reference  
Database Class  
MSBuild.ExtensionPack.Sql2012 Namespace

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DatabaseSecondaryDataFilePath Property

Sets the SecondaryDataFilePath.


See Also

Referenced
Database Class
MSBuild.ExtensionPack.Sql2012 Namespace

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DatabaseStatementTimeout Property

Sets the number of seconds before an operation times out. The default is not to specify this property on the connection.

**Namespace:** MSBuild.ExtensionPack.Sql2012  
**Version:** 4.0.0.0

See Also

**Reference**

Database Class  
MSBuild.ExtensionPack.Sql2012 Namespace

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Server Class

Valid TaskActions are:

*GetConnectionCount* *(Optional: NoPooling Output: ConnectionCount)*

*GetInfo* *(Optional: NoPooling Output: Information)*

Remote Execution Support: Yes

Inheritance Hierarchy


Version: 4.0.0.0

The **Server** type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Server type" /></td>
<td>Server</td>
</tr>
</tbody>
</table>

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="ConnectionCount" /></td>
<td>Gets the number of connections the server has open</td>
</tr>
<tr>
<td><img src="image" alt="Information" /></td>
<td>Gets the Information TaskItem. Each available property is added as metadata.</td>
</tr>
<tr>
<td><img src="image" alt="NoPooling" /></td>
<td>Set to true to create a NonPooledConnection to the server. Default is false.</td>
</tr>
</tbody>
</table>

Examples
<Project ToolsVersion="4.0" DefaultTargets="Default">
    <PropertyGroup>
        <TPath>$(MSBuildProjectDirectory)\.\.\MSBuild.ExtensionPack.tasks</TPath>
        <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\.Common\MSBuild.ExtensionPack.tasks')" />
    </PropertyGroup>
    <Import Project="$(TPath)"/>
    <Target Name="Default">
        <!-- Get information for a server, not that
             Get all the active connections to the server
        -->
            <Output TaskParameter="Information" ItemName="%(AllInfo.PhysicalMemory)" />
            <Output TaskParameter="ConnectionCount" PropertyName="ConnectionCount" />
        <Message Text="Server ConnectionCount: $(ConnectionCount)"
    </Target>
</Project>

See Also

Reference

MSBuild.ExtensionPack.Sql2012 Namespace

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Server Constructor  

**Namespace:**  MSBuild.ExtensionPack.Sql2012  

**See Also**

Reference

- Server Class

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The `Server` type exposes the following members.

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>ConnectionCount</code></td>
<td>Gets the number of connections the server has open</td>
</tr>
<tr>
<td><code>Information</code></td>
<td>Gets the Information TaskItem. Each available property is added as metadata.</td>
</tr>
<tr>
<td><code>NoPooling</code></td>
<td>Set to true to create a NonPooledConnection to the server. Default is false.</td>
</tr>
</tbody>
</table>

### See Also

**Reference**

- **Server Class**
- **MSBuild.ExtensionPack.Sql2012 Namespace**

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### ServerConnectionCount Property

Gets the number of connections the server has open

**Namespace:** MSBuild.ExtensionPack.Sql2012  

---

### See Also

**Reference**  
Server Class  
MSBuild.ExtensionPack.Sql2012 Namespace

---

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**ServerInformation Property**

Gets the Information TaskItem. Each available property is added as metadata.

**Namespace:** MSBuild.ExtensionPack.Sql2012  

**See Also**

- Server Class
**ServerNoPooling Property**

Set to true to create a NonPooledConnection to the server. Default is false.

**Namespace:** MSBuild.ExtensionPack.Sql2012  

**See Also**

Reference  
Server Class  
MSBuild.ExtensionPack.Sql2012 Namespace

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## Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
</table>
| **AnalysisServices** | **Valid TaskActions are:**  
*ScriptAlter (Required: DatabaseItem, OutputFile)*  
*ScriptCreate (Required: DatabaseItem, OutputFile)*  
*ScriptDelete (Required: DatabaseItem, OutputFile)*  
*Execute (Required: InputFile)*  
*Process (Required: DatabaseItem Optional: ProcessType)*  
**Remote Execution Support:** Yes |
| **Database**      | **Valid TaskActions are:**  
*Attach (Required: DatabaseItem Optional: See notes on metadata for DatabaseItem)*  
*Backup (Required: DatabaseItem, DataFilePath Optional: BackupAction, CompressionOption, Incremental, NotificationInterval, NoPooling, StatementTimeout, CopyOnly)*  
*CheckExists (Required: DatabaseItem Optional: NoPooling, StatementTimeout Output: Exists)*  
*Create (Required: DatabaseItem Optional: Collation, NoPooling, DataFilePath, LogName, LogFilePath, FileGroupName, StatementTimeout)*  
*Delete (Required: DatabaseItem Optional: NoPooling, StatementTimeout)*  
*DeleteBackupHistory (Required: DatabaseItem Optional: NoPooling, StatementTimeout)*  
*Detach (Required: DatabaseItem Optional: See notes on metadata for DatabaseItem)*  
*GetConnectionCount (Required: DatabaseItem Optional: NoPooling, StatementTimeout)*  
*GetInfo (Required: DatabaseItem Optional: NoPooling, StatementTimeout)* |
<table>
<thead>
<tr>
<th>Task</th>
<th>Required</th>
<th>Optional</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rename</td>
<td>DatabaseItem</td>
<td>NewName metadata</td>
<td>Optional: NoPooling, StatementTimeout</td>
</tr>
<tr>
<td>Restore</td>
<td>DatabaseItem, DataFilePath</td>
<td>ReplaceDatabase, NewDataFilePath, RestoreAction, Incremental, NotificationInterval, NoPooling, LogName, LogFilePath, PrimaryDataFileName, SecondaryDataFileName, SecondaryDataFilePath, StatementTimeout</td>
<td>Optional: NoPooling, StatementTimeout</td>
</tr>
<tr>
<td>Script</td>
<td>DatabaseItem, OutputFilePath</td>
<td></td>
<td>Optional: NoPooling, StatementTimeout</td>
</tr>
<tr>
<td>ScriptData</td>
<td>DatabaseItem, OutputFilePath</td>
<td>ScriptDrops, ScriptSchema, NoPooling, StatementTimeout</td>
<td>Optional: NoPooling, StatementTimeout</td>
</tr>
<tr>
<td>SetOffline</td>
<td>DatabaseItem</td>
<td>NoPooling</td>
<td>Optional: StatementTimeout</td>
</tr>
<tr>
<td>SetOnline</td>
<td>DatabaseItem</td>
<td>NoPooling</td>
<td>Optional: StatementTimeout</td>
</tr>
<tr>
<td>VerifyBackup</td>
<td>DataFilePath</td>
<td>NoPooling</td>
<td>Optional: StatementTimeout</td>
</tr>
</tbody>
</table>

Remote Execution Support: Yes

**Server**

Valid TaskActions are:

- getConnectionCount (Optional: NoPooling Output: ConnectionCount)
- GetInfo (Optional: NoPooling Output: Information)

Remote Execution Support: Yes

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**AnalysisServices Class**

**Valid TaskActions are:**

*ScriptAlter* (Required: DatabaseItem, OutputFile)

*ScriptCreate* (Required: DatabaseItem, OutputFile)

*ScriptDelete* (Required: DatabaseItem, OutputFile)

*Execute* (Required: InputFile)

*Process* (Required: DatabaseItem Optional: ProcessType)

Remote Execution Support: Yes

**Inheritance Hierarchy**

SystemObject  Microsoft.Build.UtilitiesTask  
MSBuild.ExtensionPackBaseTask  


The **AnalysisServices** type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AnalysisServices</td>
<td></td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DatabaseItem</td>
<td>Set the target database.</td>
</tr>
<tr>
<td>InputFile</td>
<td>Sets the InputFile containing query to execute</td>
</tr>
<tr>
<td>OutputFile</td>
<td>Sets the OutputFile</td>
</tr>
<tr>
<td>ProcessType</td>
<td>Sets the ProcessType (enum Microsoft.AnalysisServices.ProcessType).</td>
</tr>
</tbody>
</table>
Default is ProcessDefault.

Examples

See Also

Reference


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**AnalysisServices Constructor**

**Namespace:** MSBuild.ExtensionPack.Sql2014  

**See Also**

- AnalysisServices Class

---

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The **AnalysisServices** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DatabaseItem</td>
<td>Set the target database.</td>
</tr>
<tr>
<td>InputFile</td>
<td>Sets the InputFile containing query to execute</td>
</tr>
<tr>
<td>OutputFile</td>
<td>Sets the OutputFile</td>
</tr>
</tbody>
</table>

## See Also

Reference

AnalysisServices Class
AnalysisServicesDatabaseItem Property

Set the target database.

**Namespace:** MSBuild.ExtensionPack.Sql2014  
**Version:** 4.0.0.0

---

**See Also**

Reference

- AnalysisServices Class

---

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**AnalysisServicesInputFile**  

**Property**

Sets the InputFile containing query to execute.

**Namespace:** MSBuild.ExtensionPack.Sql2014  

---

**See Also**

Reference

- AnalysisServices Class

---

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AnalysisServicesOutputFile Property

Sets the OutputFile

**Namespace:** MSBuild.ExtensionPack.Sql2014


See Also

Reference

AnalysisServices Class

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**AnalysisServicesProcessType**


**Namespace:** MSBuild.ExtensionPack.Sql2014  

**See Also**

Reference

AnalysisServices Class  

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Valid TaskActions are:

Attach (Required: DatabaseItem Optional: See notes on metadata for DatabaseItem)

Backup (Required: DatabaseItem, DataFilePath Optional: BackupAction, CompressionOption, Incremental, NotificationInterval, NoPooling, StatementTimeout, CopyOnly)

CheckExists (Required: DatabaseItem Optional: NoPooling, StatementTimeout Output: Exists)

Create (Required: DatabaseItem Optional: Collation, NoPooling, DataFilePath, LogName, LogFilePath, FileGroupName, StatementTimeout)

Delete (Required: DatabaseItem Optional: NoPooling, StatementTimeout)

DeleteBackupHistory (Required: DatabaseItem Optional: NoPooling, StatementTimeout)

Detach (Required: DatabaseItem Optional: See notes on metadata for DatabaseItem)

GetConnectionCount (Required: DatabaseItem Optional: NoPooling, StatementTimeout)

GetInfo (Required: DatabaseItem Optional: NoPooling, StatementTimeout)

Rename (Required: DatabaseItem (NewName metadata) Optional: NoPooling,StatementTimeout)

Restore (Required: DatabaseItem, DataFilePath Optional: ReplaceDatabase, NewDataFilePath, RestoreAction, Incremental, NotificationInterval, NoPooling, LogName, LogFilePath, PrimaryDataFileName, SecondaryDataFileName, SecondaryDataFilePath, StatementTimeout)

Script (Required: DatabaseItem, OutputFilePath Optional: NoPooling, StatementTimeout)

ScriptData (Required: DatabaseItem, OutputFilePath Optional: ScriptDrops, ScriptSchema, NoPooling, StatementTimeout)

SetOffline (Required: DatabaseItem Optional: NoPooling,
Inheritance Hierarchy

SystemObject Microsoft.Build.UtilitiesTask
  MSBuild.ExtensionPackBaseTask
  MSBuild.ExtensionPack.Sql2014Database


The **Database** type exposes the following members.

## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Database</td>
<td></td>
</tr>
</tbody>
</table>

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BackupAction</td>
<td>Sets the type of backup action to perform. Supports Database, Files and Log. Default is Database</td>
</tr>
<tr>
<td>Collation</td>
<td>Sets the collation of the database.</td>
</tr>
<tr>
<td>CompressionOption</td>
<td>Sets the compression option for the backup. Supports On, Off and Default. Default is Default.</td>
</tr>
<tr>
<td>ConnectionCount</td>
<td>Gets the number of connections the database has open</td>
</tr>
<tr>
<td>CopyOnly</td>
<td>Sets whether the backup is a copy-only backup. Default is false.</td>
</tr>
<tr>
<td>DatabaseItem</td>
<td>Sets the database name. When using Attach, you can specify the following metadata: Owner, Files (semicolon delimited),</td>
</tr>
</tbody>
</table>
AttachOptions (Default None). When using Detach, you can specify the following metadata: UpdateStatistics, RemoveFulltextIndexFile (both default to false).

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DataFilePath</td>
<td>Sets the DataFilePath.</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the database exists</td>
</tr>
<tr>
<td>FileGroupName</td>
<td>Sets the FileGroupName. Defaults to PRIMARY</td>
</tr>
<tr>
<td>Force</td>
<td>Set to true to force the creation of a database if it already exists.</td>
</tr>
<tr>
<td>Incremental</td>
<td>Set to true to perform an Incremental backup. Default is false.</td>
</tr>
<tr>
<td>Information</td>
<td>Gets the Information TaskItem. Each available property is added as metadata.</td>
</tr>
<tr>
<td>LogFilePath</td>
<td>Sets the LogFilePath.</td>
</tr>
<tr>
<td>LogName</td>
<td>Sets the Log Name. Defaults DatabaseItem.ItemSpec + &quot;_log&quot;</td>
</tr>
<tr>
<td>NewDataFilePath</td>
<td>Sets the NewDataFilePath.</td>
</tr>
<tr>
<td>NoPooling</td>
<td>Set to true to create a NonPooledConnection to the server. Default is false.</td>
</tr>
<tr>
<td>NotificationInterval</td>
<td>Sets the PercentCompleteNotification interval. Defaults to 10.</td>
</tr>
<tr>
<td>OutputFilePath</td>
<td>Sets the OutputFilePath.</td>
</tr>
<tr>
<td>PrimaryDataFileName</td>
<td>Sets the primary data file name.</td>
</tr>
<tr>
<td>RegexPattern</td>
<td>Sets the regex pattern.</td>
</tr>
<tr>
<td>ReplaceDatabase</td>
<td>A Boolean value that specifies whether a new image of the restored database will be created. If True, a new image of the database is created. The image is created regardless of the presence of an existing database with the same name. If False (default), a new image of the database is not created by the restore operation. The database targeted by the restore operation must exist on an instance of Microsoft SQL Server.</td>
</tr>
<tr>
<td>RestoreAction</td>
<td>Sets the type of restore action to perform. Supports Database, Files, Log, OnlineFiles, OnlinePage. Default is Database</td>
</tr>
<tr>
<td>ScriptDrops</td>
<td>Sets ScriptingOptions for ScriptData TaskAction</td>
</tr>
<tr>
<td>ScriptSchema</td>
<td>Sets ScriptingOptions for ScriptData TaskAction</td>
</tr>
<tr>
<td>SecondaryDataFileName</td>
<td>Sets the secondary data file name. No default value.</td>
</tr>
<tr>
<td>SecondaryDataFilePath</td>
<td>Sets the SecondaryDataFilePath.</td>
</tr>
<tr>
<td>StatementTimeout</td>
<td>Sets the number of seconds before an operation times out. The default is not to specify this property on the connection.</td>
</tr>
</tbody>
</table>
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\..\MSBuild</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\..\Common\MSBuild.ExtensionPack.tasks')"/>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <ItemGroup>
      <Database Include="ADatabase">
        <NewName>ADatabase2</NewName>
      </Database>
      <Database Include="ADatabase2">
        <NewName>ADatabase</NewName>
      </Database>
      <Database Include="ADatabase3">
        <Owner></Owner>
        <AttachOptions>1</AttachOptions>
        <UpdateStatistics>true</UpdateStatistics>
        <RemoveFullPathIndexFile>true</RemoveFullPathIndexFile>
        <Files>C:\Program Files\Microsoft SQL</Files>
      </Database>
      <!-- Create Database -->
      <!-- Create Database -->
      <!-- Detach Database--> 
      <!-- Attach Database--> 
      <!-- Get information on a database -->
        <Output TaskParameter="Information" ItemName/>
    </ItemGroup>
  </Target>
</Project>
<!- All the database information properties
<Message Text="Space Available: %(AllInfo.SpaceAvailable)"
<!- ScriptData for tables matching Acc* name
<!- Backup a database -->
<!- Verify a database backup -->
<!- Restore a database -->
<!- Restore a database to a different location
<!- Create a database -->
<!- Create the database again, using Force
<!- Check whether a database exists -->
 <Output TaskParameter="Exists" PropertyName="Exists">
<Message Text="Database Exists: $(DoesExist)"
<!- Delete a database -->
<!- Check whether a database exists -->
 <Output TaskParameter="Exists" PropertyName="Exists">
<Message Text="Database Exists: $(DoesExist)"
<!- Get the number of active connections to
 <Output TaskParameter="Connection Count" PropertyName="ConnectionCount">
<Message Text="Database Connection Count: $(Count)"
<!- Delete the backup history for a database
<!- Set a database offline -->
<!- Set a database online -->
<!-- Rename a database -->
<!-- Script a database to file -->
<!-- Restore a database to a new Name -->
</Target>
</Project>

See Also

Reference


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Send comments on this topic to MSBuild ExtensionPack Feedback
**Database Constructor**

**Namespace:** MSBuild.ExtensionPack.Sql2014


---

**See Also**

Reference

- Database Class

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
The **Database** type exposes the following members.

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BackupAction</td>
<td>Sets the type of backup action to perform. Supports Database, Files and Log. Default is Database</td>
</tr>
<tr>
<td>Collation</td>
<td>Sets the collation of the database.</td>
</tr>
<tr>
<td>CompressionOption</td>
<td>Sets the compression option for the backup. Supports On, Off and Default. Default is Default.</td>
</tr>
<tr>
<td>ConnectionCount</td>
<td>Gets the number of connections the database has open</td>
</tr>
<tr>
<td>CopyOnly</td>
<td>Sets whether the backup is a copy-only backup. Default is false.</td>
</tr>
<tr>
<td>DatabaseItem</td>
<td>Sets the database name. When using Attach, you can specify the following metadata: Owner, Files (semicolon delimited), AttachOptions (Default None). When using Detach, you can specify the following metadata: UpdateStatistics, RemoveFulltextIndexFile (both default to false).</td>
</tr>
<tr>
<td>DataFilePath</td>
<td>Sets the DataFilePath.</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the database exists</td>
</tr>
<tr>
<td>FileGroupName</td>
<td>Sets the FileGroupName. Defaults to PRIMARY.</td>
</tr>
<tr>
<td>Force</td>
<td>Set to true to force the creation of a database if it already exists.</td>
</tr>
<tr>
<td>Incremental</td>
<td>Set to true to perform an Incremental backup. Default is false.</td>
</tr>
<tr>
<td>Information</td>
<td>Gets the Information TaskItem. Each available property is added as metadata.</td>
</tr>
<tr>
<td>LogFilePath</td>
<td>Sets the LogFilePath.</td>
</tr>
<tr>
<td>LogName</td>
<td>Sets the Log Name. Defaults DatabaseItem.ItemSpec + &quot;_log&quot;</td>
</tr>
<tr>
<td>NewDataFilePath</td>
<td>Sets the NewDataFilePath.</td>
</tr>
<tr>
<td>NoPooling</td>
<td>Set to true to create a NonPooledConnection to the server. Default is false.</td>
</tr>
<tr>
<td>NotificationInterval</td>
<td>Sets the PercentCompleteNotification interval. Defaults to 10.</td>
</tr>
<tr>
<td>OutputFilePath</td>
<td>Sets the OutputFilePath.</td>
</tr>
<tr>
<td><strong>PrimaryDataFileName</strong></td>
<td>Sets the primary data file name.</td>
</tr>
<tr>
<td>-------------------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td><strong>RegexPattern</strong></td>
<td>Sets the regex pattern.</td>
</tr>
<tr>
<td><strong>ReplaceDatabase</strong></td>
<td>A Boolean value that specifies whether a new image of the restored database will be created. If True, a new image of the database is created. The image is created regardless of the presence of an existing database with the same name. If False (default), a new image of the database is not created by the restore operation. The database targeted by the restore operation must exist on an instance of Microsoft SQL Server.</td>
</tr>
<tr>
<td><strong>RestoreAction</strong></td>
<td>Sets the type of restore action to perform. Supports Database, Files, Log, OnlineFiles, OnlinePage. Default is Database.</td>
</tr>
<tr>
<td><strong>ScriptDrops</strong></td>
<td>Sets ScriptingOptions for ScriptData TaskAction</td>
</tr>
<tr>
<td><strong>ScriptSchema</strong></td>
<td>Sets ScriptingOptions for ScriptData TaskAction</td>
</tr>
<tr>
<td><strong>SecondaryDataFileName</strong></td>
<td>Sets the secondary data file name. No default value.</td>
</tr>
<tr>
<td><strong>SecondaryDataFilePath</strong></td>
<td>Sets the SecondaryDataFilePath.</td>
</tr>
<tr>
<td><strong>StatementTimeout</strong></td>
<td>Sets the number of seconds before an operation times out. The default is not to specify this property on the connection.</td>
</tr>
</tbody>
</table>

**See Also**

*Database Class*

**MSBuild.ExtensionPack.Sql2014 Namespace**

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Send comments on this topic to MSBuild ExtensionPack Feedback
**DatabaseBackupAction Property**

Sets the type of backup action to perform. Supports Database, Files and Log. Default is Database

**Namespace:** MSBuild.ExtensionPack.Sql2014  
**Assembly:** MSBuild.ExtensionPack.Sql2014.dll  
**Version:** 4.0.0.0

**See Also**

Reference

Database Class  

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Send comments on this topic to MSBuild ExtensionPack Feedback
**DatabaseCollation Property**

Sets the collation of the database.

**Namespace:** MSBuild.ExtensionPack.Sql2014  

---

**See Also**

- Database Class  

---

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DatabaseCompressionOption Property

Sets the compression option for the backup. Supports On, Off and Default. Default is Default.


See Also

Reference

Database Class

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DatabaseConnectionCount Property

Gets the number of connections the database has open.


See Also

Reference
Database Class
**DatabaseCopyOnly Property**

Sets whether the backup is a copy-only backup. Default is false.

**Namespace:** MSBuild.ExtensionPack.Sql2014  

**See Also**

**Reference**
- Database Class

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**DatabaseDatabaseItem Property**

Sets the database name. When using Attach, you can specify the following metadata: Owner, Files (semicolon delimited), AttachOptions (Default None). When using Detach, you can specify the following metadata: UpdateStatistics, RemoveFulltextIndexFile (both default to false).

**Namespace:** MSBuild.ExtensionPack.Sql2014


**See Also**

Reference

Database Class


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DatabaseDataFilePath Property

Sets the DataFilePath.

**Namespace:** MSBuild.ExtensionPack.Sql2014


---

**See Also**

Reference

Database Class


---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**DatabaseExists Property**  MSBuild Extension Pack Help 4.0.12.0

Gets whether the database exists

**Namespace:** MSBuild.ExtensionPack.Sql2014  
**Version:** 4.0.0.0

**See Also**

Reference

**Database Class**  
**MSBuild.ExtensionPack.Sql2014 Namespace**

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Send comments on this topic to MSBuild ExtensionPack Feedback
**DatabaseFileGroupName**

Sets the FileGroupName. Defaults to PRIMARY

**Namespace:** MSBuild.ExtensionPack.Sql2014  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

- Database Class  

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**DatabaseForce Property**  
MSBuild Extension Pack Help 4.0.12.0

Set to true to force the creation of a database if it already exists.

**Namespace:** MSBuild.ExtensionPack.Sql2014  

**See Also**

Reference

Database Class  

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Database Incremental Property

Set to true to perform an Incremental backup. Default is false.


See Also

Reference
Database Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
### DatabaseInformation Property

Gets the Information TaskItem. Each available property is added as metadata.

**Namespace:** `MSBuild.ExtensionPack.Sql2014`  

### See Also

**Reference**

- Database Class

---

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DatabaseLogFilePath

Property

Sets the LogFilePath.


See Also

Reference

Database Class  

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Send comments on this topic to MSBuild ExtensionPack Feedback
DatabaseLogName Property

Sets the Log Name. Defaults DatabaseItem.ItemSpec + "_log"


See Also

Reference
Database Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**DatabaseNewDataFilePath Property**

Sets the NewDataFilePath.

**Namespace:** MSBuild.ExtensionPack.Sql2014  

---

**See Also**

**Reference**

Database Class  

---

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**DatabaseNoPooling**

Property

Set to true to create a NonPooledConnection to the server. Default is false.

**Namespace:** MSBuild.ExtensionPack.Sql2014


**See Also**

Reference

Database Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**DatabaseNotificationInterval Property**

Sets the PercentCompleteNotification interval. Defaults to 10.

**Namespace:** MSBuild.ExtensionPack.Sql2014  

**See Also**

**Reference**

- Database Class  
**DatabaseOutputFilePath**

Sets the OutputFilePath.

**Namespace:** MSBuild.ExtensionPack.Sql2014  

---

**See Also**

**Reference**

- Database Class

---

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**DatabasePrimaryDataFileName Property**

Sets the primary data file name.

**Namespace:** MSBuild.ExtensionPack.Sql2014  

**See Also**

Reference

- Database Class

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DatabaseRegexPattern Property

Sets the regex pattern.

**Namespace:** MSBuild.ExtensionPack.Sql2014


**See Also**

Reference

- Database Class

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DatabaseReplaceDatabase Property

A Boolean value that specifies whether a new image of the restored database will be created. If True, a new image of the database is created. The image is created regardless of the presence of an existing database with the same name. If False (default), a new image of the database is not created by the restore operation. The database targeted by the restore operation must exist on an instance of Microsoft SQL Server.


See Also

Reference
Database Class

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DatabaseRestoreAction Property

Sets the type of restore action to perform. Supports Database, Files, Log, OnlineFiles, OnlinePage. Default is Database.


See Also

Reference

Database Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
DatabaseScriptDrops Property

Sets ScriptingOptions for ScriptData TaskAction

**Namespace:** MSBuild.ExtensionPack.Sql2014  

See Also

Reference

Database Class  

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Send comments on this topic to MSBuild ExtensionPack Feedback
DatabaseScriptSchema Property

Sets ScriptingOptions for ScriptData TaskAction

**Namespace:** MSBuild.ExtensionPack.Sql2014  

See Also

Reference

Database Class


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DatabaseSecondaryDataFileName Property

Sets the secondary data file name. No default value.


See Also

Reference

Database Class

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DatabaseSecondaryDataFilePath Property

Sets the SecondaryDataFilePath.

**Namespace:** MSBuild.ExtensionPack.Sql2014


**See Also**

Reference

Database Class


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**DatabaseStatementTimeout Property**

Sets the number of seconds before an operation times out. The default is not to specify this property on the connection.

**Namespace:** MSBuild.ExtensionPack.Sql2014  

**See Also**

**Reference**

- Database Class

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Server Class

Valid TaskActions are:

*GetConnectionCount* *(Optional: NoPooling Output: ConnectionCount)*

*GetInfo* *(Optional: NoPooling Output: Information)*

Remote Execution Support: Yes

Inheritance Hierarchy

```
                 MSBuild.ExtensionPackBaseTask
```


The *Server* type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![ ]</td>
<td>Server</td>
</tr>
</tbody>
</table>

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![ ]</td>
<td>ConnectionCount</td>
</tr>
<tr>
<td>![ ]</td>
<td>Information</td>
</tr>
<tr>
<td>![ ]</td>
<td>NoPooling</td>
</tr>
</tbody>
</table>

Examples

Copy
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild\Common\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks')"></TPath Condition>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- Get information for a server, not that
      <Output TaskParameter="Information" ItemName="AllInfo"
    <!-- All the server information properties a
    <Message Text="PhysicalMemory: %(AllInfo.PhysicalMemory)"
    <!-- Get all the active connections to the s
      <Output TaskParameter="ConnectionCount"
    <Message Text="Server ConnectionCount: $(Count)"
  </Target>
</Project>

See Also
Reference

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Server Constructor


See Also

Reference
Server Class

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The **Server** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ConnectionCount</td>
<td>Gets the number of connections the server has open</td>
</tr>
<tr>
<td>Information</td>
<td>Gets the Information TaskItem. Each available property is added as metadata.</td>
</tr>
<tr>
<td>NoPooling</td>
<td>Set to true to create a NonPooledConnection to the server. Default is false.</td>
</tr>
</tbody>
</table>

## See Also

**Reference**

**Server Class**

**MSBuild.ExtensionPack.Sql2014 Namespace**

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ServerConnectionCount Property

Gets the number of connections the server has open


See Also

Reference
Server Class

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ServerInformation Property

Gets the Information TaskItem. Each available property is added as metadata.


See Also

Reference
Server Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
ServerNoPooling Property

Set to true to create a NonPooledConnection to the server. Default is false.

**Namespace:** MSBuild.ExtensionPack.Sql2014


See Also

**Reference**

Server Class


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Overview

This namespace currently hosts the various SqlServer tasks

### Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BuildDeploymentManifest</td>
<td>This Task can be used to translate SSIS projects (.dtproj files) into an SSIS deployment manifest</td>
</tr>
<tr>
<td></td>
<td><strong>Remote Execution Support:</strong> NA</td>
</tr>
<tr>
<td>BuildNumber</td>
<td>Wraps the SQL Server command line executable SqlCmd.exe.</td>
</tr>
<tr>
<td></td>
<td><strong>Valid TaskActions are:</strong> Execute (Required: CommandLineQuery or InputFiles Optional: Database, DedicatedAdminConnection, DisableVariableSubstitution, EchoInput, EnableQuotedIdentifiers, Headers, LoginTimeout, LogOn, NewPassword, OutputFile, Password, QueryTimeout, RedirectStandardError, Server, SeverityLevel, SqlCmdPath, UnicodeOutput, UseClientRegionalSettings, Variables, Workstation)</td>
</tr>
<tr>
<td></td>
<td><strong>Remote Execution Support:</strong> Yes</td>
</tr>
<tr>
<td>SqlExecute</td>
<td><strong>Valid TaskActions are:</strong> Execute (Required: ConnectionString, Sql or Files Optional: CodePage, CommandTimeout, Parameters, Retry, UseTransaction, IgnoreScriptErrors, StripMultiLineComments Output: FailedScripts)</td>
</tr>
<tr>
<td></td>
<td>ExecuteRawReader (Required: ConnectionString, Sql Optional: CodePage, CommandTimeout, Parameters, Retry, UseTransaction, IgnoreScriptErrors Output: RawReaderResult, FailedScripts)</td>
</tr>
<tr>
<td></td>
<td>ExecuteReader (Required: ConnectionString, Sql Optional: CodePage, CommandTimeout, Parameters, Retry, UseTransaction, IgnoreScriptErrors Output: ReaderResult,</td>
</tr>
<tr>
<td>Task</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>SqlVersion</td>
<td>The SqlVersion task provides the ability to manage multiple build versions in a simple database table.</td>
</tr>
<tr>
<td></td>
<td><strong>Valid TaskActions are:</strong></td>
</tr>
<tr>
<td></td>
<td><strong>GetVersion</strong> <em>(Required: BuildName, DatabaseName Optional: Delimiter, FieldToIncrement, PaddingCount, PaddingDigit Output: Build, Major, Minor, Revision, Version)</em></td>
</tr>
<tr>
<td>SqlVersionDataClass</td>
<td></td>
</tr>
</tbody>
</table>

ExecuteScalar *(Required: ConnectionString, Sql Optional: CodePage, CommandTimeout, Parameters, Retry, UseTransaction, IgnoreScriptErrors Output: ScalarResult, FailedScripts)*

Remote Execution Support: NA

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**BuildDeploymentManifest**

This Task can be used to translate SSIS projects (.dtproj files) into an SSIS deployment manifest.

**Remote Execution Support:** NA

**Inheritance Hierarchy**

```
SystemObject  Microsoft.Build.UtilitiesTask  
              MSBuild.ExtensionPack.SqlServer.buildDeploymentManifest
```

**Namespace:** MSBuild.ExtensionPack.SqlServer

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  Version: 4.0.0.0

The **BuildDeploymentManifest** type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BuildDeploymentManifest</td>
<td></td>
</tr>
</tbody>
</table>

### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Execute</td>
<td>(Overrides Task.Execute.)</td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AllowConfigurationChanges</td>
<td>Set to true to show the Configure Package dialog box after copying files. Default is true.</td>
</tr>
<tr>
<td>InputProject</td>
<td>Each .dtproj is a separate item in an ItemGroup, but each item needs a custom OutputDirectory metadata value that specifies where the deployment manifest should be written and project files copied to</td>
</tr>
</tbody>
</table>
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\.\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\.\Common\MSBuild.ExtensionPack.tasks')"/>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <PropertyGroup>
      <OutputRoot>C:\a\</OutputRoot>
    </PropertyGroup>
    <ItemGroup>
      <SSISProjectFile Include="C:\MyPackages.dtproj">
        <SSISProject Include="@(SSISProjectFile)">
          <OutputDirectory>$(OutputRoot)%(FileName)</OutputDirectory>
        </SSISProject>
      </SSISProjectFile>
    </ItemGroup>
  </Target>
</Project>

See Also

Reference
MSBuild.ExtensionPack.SqlServer Namespace

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BuildDeploymentManifest Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

BuildDeploymentManifest Class
MSBuild.ExtensionPack.SqlServer Namespace

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**BuildDeploymentManifest**

The **BuildDeploymentManifest** type exposes the following members.

## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Execute</td>
<td>(Overrides TaskExecute.)</td>
</tr>
</tbody>
</table>

## See Also

**Reference**

- **BuildDeploymentManifest Class**
- **MSBuild.ExtensionPack.SqlServer Namespace**

---

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**BuildDeploymentManifestExecute**  
*MSBuild Extension Pack Help 4.0.12.0*

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also

Reference

- BuildDeploymentManifest Class
- MSBuild.ExtensionPack.SqlServer Namespace

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BuildDeploymentManifest Properties

The **BuildDeploymentManifest** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AllowConfigurationChanges</td>
<td>Set to true to show the Configure Package dialog box after copying files. Default is true.</td>
</tr>
<tr>
<td>InputProject</td>
<td>Each <em>.dtproj</em> is a separate item in an ItemGroup, but each item needs a custom OutputDirectory metadata value that specifies where the deployment manifest should be written and project files copied to</td>
</tr>
</tbody>
</table>

**See Also**

**Reference**

- BuildDeploymentManifest Class
- MSBuild.ExtensionPack.SqlServer Namespace

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**BuildDeploymentManifestAllowConfigurationChange Property**

Set to true to show the Configure Package dialog box after copying files. Default is true.

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**
- BuildDeploymentManifest Class
- MSBuild.ExtensionPack.SqlServer Namespace

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BuildDeploymentManifestInputProject Property

Each .dtproj is a separate item in an ItemGroup, but each item needs a custom OutputDirectory metadata value that specifies where the deployment manifest should be written and project files copied to

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
BuildDeploymentManifest Class
MSBuild.ExtensionPack.SqlServer Namespace

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**BuildNumber Class**

**Inheritance Hierarchy**

System\Object  MSBuild.ExtensionPack.SqlServer\BuildNumber

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

The **BuildNumber** type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BuildNumber</td>
<td></td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Build</td>
<td></td>
</tr>
<tr>
<td>Increment</td>
<td></td>
</tr>
<tr>
<td>Major</td>
<td></td>
</tr>
<tr>
<td>Minor</td>
<td></td>
</tr>
<tr>
<td>SequenceName</td>
<td></td>
</tr>
</tbody>
</table>

### Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PropertyChanged</td>
<td></td>
</tr>
<tr>
<td>PropertyChanging</td>
<td></td>
</tr>
</tbody>
</table>

### See Also
**BuildNumber**

**Constructor**

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

Reference

BuildNumber Class
MSBuild.ExtensionPack.SqlServer Namespace

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The `BuildNumber` type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Build</td>
<td></td>
</tr>
<tr>
<td>Increment</td>
<td></td>
</tr>
<tr>
<td>Major</td>
<td></td>
</tr>
<tr>
<td>Minor</td>
<td></td>
</tr>
<tr>
<td>SequenceName</td>
<td></td>
</tr>
</tbody>
</table>

## See Also

- `BuildContext` Class
- `MSBuild.ExtensionPack.SqlServer Namespace`

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**BuildNumberBuild Property**

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

BuildNumber Class  
MSBuild.ExtensionPack.SqlServer Namespace

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BuildNumberIncrement Property

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

BuildNumber Class
MSBuild.ExtensionPack.SqlServer Namespace

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**BuildNumberMajor Property**

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack.dll  
**Version:** 4.0.0.0

**See Also**

Reference  
**BuildNumber Class**  
**MSBuild.ExtensionPack.SqlServer Namespace**

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BuildNumberMinor Property

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

BuildNumber Class
MSBuild.ExtensionPack.SqlServer Namespace

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See Also

Reference

**BuildNumber Class**

**MSBuild.ExtensionPack.SqlServer Namespace**
The **BuildNumber** type exposes the following members.

### Events

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PropertyChangedEventArgs</td>
<td></td>
</tr>
<tr>
<td>PropertyChanging</td>
<td></td>
</tr>
</tbody>
</table>

### See Also

- **BuildNumber Class**
- **MSBuild.ExtensionPack.SqlServer Namespace**

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BuildNumberPropertyChanged

**Event**

**Namespace:** MSBuild.ExtensionPack.SqlServer

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

---

**See Also**

Reference

BuildNumber Class

MSBuild.ExtensionPack.SqlServer Namespace

---

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**BuildNumberPropertyChanging Event**

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

<table>
<thead>
<tr>
<th>See Also</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reference</strong></td>
</tr>
<tr>
<td>BuildNumber Class</td>
</tr>
<tr>
<td>MSBuild.ExtensionPack.SqlServer Namespace</td>
</tr>
</tbody>
</table>

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**SqlCmd Class**

Wraps the SQL Server command line executable SqlCmd.exe.

**Valid TaskActions are:**

*Execute* (Required: CommandLineQuery or InputFiles Optional: Database, DedicatedAdminConnection, DisableVariableSubstitution, EchoInput, EnableQuotedIdentifiers, Headers, LoginTimeout, LogOn, NewPassword, OutputFile, Password, QueryTimeout, RedirectStandardError, Server, SeverityLevel, SqlCmdPath, UnicodeOutput, UseClientRegionalSettings, Variables, Workstation)

**Remote Execution Support:** Yes

---

**Inheritance Hierarchy**

SystemObject  Microsoft.Build.UtilitiesTask  
MSBuild.ExtensionPackBaseTask  

**Namespace:** MSBuild.ExtensionPack.SqlServer

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The SqlCmd type exposes the following members.

---

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="SqlCmd" /></td>
<td>Initializes a new instance of the SqlCmd class</td>
</tr>
</tbody>
</table>

---

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="CommandLineQuery" /></td>
<td>Gets or sets one or more command line queries to execute when SqlCmd starts, but does not exit sqlcmd when the query has finished running.</td>
</tr>
<tr>
<td><img src="image" alt="Database" /></td>
<td>Gets or sets the name of the database to connect to. Issues a</td>
</tr>
</tbody>
</table>

---
<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>\texttt{USE} \texttt{db_name} statement</td>
<td>when you start \texttt{SqlCmd}. This option sets the \texttt{SqlCmd} scripting variable \texttt{SQLCMDDBNAME}. This specifies the initial database. The default is your login's default-database property. If the database does not exist, an error message is generated and \texttt{SqlCmd} exits.</td>
</tr>
<tr>
<td>\texttt{DedicatedAdminConnection}</td>
<td>Gets or sets a flag that indicates if the connection to SQL Server should use a Dedicated Administrator Connection (DAC). This kind of connection is used to troubleshoot a server. This will only work with server computers that support DAC. If DAC is not available, \texttt{SqlCmd} generates an error message and then exits. For more information about DAC, see \texttt{Using a Dedicated Administrator Connection}.</td>
</tr>
<tr>
<td>\texttt{DisableVariableSubstitution}</td>
<td>Causes \texttt{SqlCmd} to ignore scripting variables. This is useful when a script contains many \texttt{INSERT} statements that may contain strings that have the same format as regular variables, such as \texttt{${$variable_name$}}.</td>
</tr>
<tr>
<td>\texttt{EchoInput}</td>
<td>Gets or sets a flag that indicates if the input scripts are written to the standard output device (\texttt{stdout}).</td>
</tr>
<tr>
<td>\texttt{EnableQuotedIdentifiers}</td>
<td>Gets or sets a flag that sets the \texttt{SET QUOTED_IDENTIFIER} connection option to \texttt{ON}. By default, it is set to \texttt{OFF}. For more information, see \texttt{SET QUOTED_IDENTIFIER (Transact-SQL)}.</td>
</tr>
<tr>
<td>\texttt{Headers}</td>
<td>Specifies the number of rows to print between the column headings. The default is to print headings one time for each set of query results. This option sets the sqlcmd scripting variable \texttt{SQLCMDHEADERS}. Use \texttt{-1} to specify that headers must not be printed. Any value that is not valid causes \texttt{SqlCmd} to generate an error message and then exit.</td>
</tr>
<tr>
<td>\texttt{InputFiles}</td>
<td>Gets or sets the path to a file that contains a batch of SQL statements. Multiple files may be specified that will be read and processed in order. Do not use any spaces between the file names. \texttt{SqlCmd} will first check to see whether all files exist. If one or more files do not exist, \texttt{SqlCmd} will exit. The \texttt{InputFiles} and \texttt{CommandLineQuery} options are mutually exclusive.</td>
</tr>
</tbody>
</table>
Please note that if you provide a large number of files, you may exceed the maximum length of a command line (http://support.microsoft.com/kb/830473). It's recommended you make use of smaller batches if you encounter this issue.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LoginTimeout</strong></td>
<td>Gets or sets the number of seconds before the <strong>SqlCmd</strong> login to the OLE DB provider times out when you try to connect to a server. The default login time-out for <strong>SqlCmd</strong> is eight (8) seconds. The login time-out value must be a number between 0 and 65534. If the value supplied is not numeric or does not fall into that range, the <strong>SqlCmd</strong> generates an error message. A value of 0 specifies the time-out to be indefinite.</td>
</tr>
</tbody>
</table>
| **LogOn** | Gets or sets the user login id. If neither the LogOn or Password option is specified, **SqlCmd** tries to connect by using Microsoft Windows Authentication mode. Authentication is based on the Windows account of the user who is running **SqlCmd**.  

**Note:** The **OSQLUSER** environment variable is available for backwards compatibility. The **SQLCMDUSER** environment variable takes precedence over the **OSQLUSER** environment variable. This means that **SqlCmd** and **osql** can be used next to each other without interference. |
<p>| <strong>NewPassword</strong> | Changes the password for a user.                                                                                                                                                                       |
| <strong>OutputFile</strong> | Gets or sets the file that receives output from <strong>SqlCmd</strong>. If the <strong>UnicodeOutput</strong> option is specified, the output file is stored in Unicode format. If the file name is not valid, an error message is generated, and <strong>SqlCmd</strong> exits. <strong>SqlCmd</strong> does not support concurrent writing of multiple <strong>SqlCmd</strong> processes to the same file. The file output will be corrupted or incorrect. This file will be created if it does not exist. A file of the same name from a prior <strong>SqlCmd</strong> session will be overwritten. The file specified here is not the stdout file. If a stdout file is specified this file will not be used. |
| <strong>Password</strong> | Gets or sets the user specified password. Passwords are case-sensitive. If the LogOn option is used and the Password option is not used, and the <strong>SQLCMDPASSWORD</strong> environment variable has not been set, <strong>SqlCmd</strong> uses the default password (NULL). |
| <strong>QueryTimeout</strong> | Gets or sets the number of seconds before a command (or SQL statement) times out. This option sets the <strong>SqlCmd</strong> scripting variable <strong>SQLCMDSTATTIMEOUT</strong>. If a time_out value is not specified, the command does not time out. The query time_out must be a number between 1 and 65535. If the |</p>
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RedirectStandardError</td>
<td>Gets or sets a flag that indicates whether or not to redirect the error message output to the screen (stderr). If you do not specify a parameter or if you specify 0, only error messages that have a severity level of 11 or higher are redirected. If you specify 1, all error message output including PRINT is redirected. Has no effect if you use OutputFile. By default, messages are sent to stdout.</td>
</tr>
<tr>
<td>Server</td>
<td>Gets or sets the name of the SQL Server to which to connect. It sets the SqlCmd scripting variable SQLCMDSERVER. Specify Server to connect to the default instance of SQL Server on that server computer. Specify Server to connect to a named instance of SQL Server on that server computer. If no server computer is specified, SqlCmd connects to the default instance of SQL Server on the local computer. This option is required when you execute sqlcmd from a remote computer on the network. If you do not specify a Server when you start SqlCmd, SQL Server checks for and uses the SQLCMDSERVER environment variable. Note: The OSQLSERVER environment variable has been kept for backward compatibility. The SQLCMDSERVER environment variable takes precedence over the OSQLSERVER environment variable.</td>
</tr>
<tr>
<td>SeverityLevel</td>
<td>Controls the severity level that is used to set the ERRORLEVEL variable. If the ERRORLEVEL reported is &gt;= SeverityLevel then the task will log an error.</td>
</tr>
<tr>
<td>SqlCmdPath</td>
<td>Gets or sets the path to the sqlcmd.exe.</td>
</tr>
<tr>
<td>UnicodeOutput</td>
<td>Gets or sets a flag that indicates if the OutputFile is stored in Unicode format, regardless of the format of the InputFiles.</td>
</tr>
<tr>
<td>UseClientRegionalSettings</td>
<td>Gets or sets a flag that indicates if the SQL Server OLE DB provider uses the client regional settings when it converts currency, and date and time data to character data. The default is server regional settings.</td>
</tr>
<tr>
<td>Variables</td>
<td>Creates a SqlCmd scripting variable that can be used in a SqlCmd script. You can specify multiple Variables and values. If there are errors in any of the values specified, SqlCmd generates an error message and then exits.</td>
</tr>
</tbody>
</table>
**Workstation**

Gets or sets the workstation name. This option sets the `SqlCmd` scripting variable `SQLCMDWORKSTATION`. The workstation name is listed in the `hostname` column of the `sys.processes` catalog view and can be returned using the stored procedure `sp_who`. If this option is not specified, the default is the current computer name. This name can be used to identify different sqlcmd sessions.

---

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <!-- Simple CommandLineQuery -->
  <!-- Simple CommandLineQuery setting the Server and Database and outputing to a file -->
  <!-- Simple CommandLineQuery setting the Server and Database, running external files and using variable substition -->
  <!-- Simple CommandLineQuery setting the Server and Database, running external files -->
  <!-- Simple CommandLineQuery setting the Server -->
  <!-- Simple CommandLineQuery setting the Server -->
  <!-- Simple CommandLineQuery setting the Server -->
</Project>
```
GlCmd Constructor

Initializes a new instance of the GlCmd class

**Namespace:** MSBuild.ExtensionPack.SqlServer
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

See Also

Reference

GlCmd Class
MSBuild.ExtensionPack.SqlServer Namespace

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The **SqlCmd** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CommandLineQuery</td>
<td>Gets or sets one or more command line queries to execute when <strong>SqlCmd</strong> starts, but does not exit sqlcmd when the query has finished running.</td>
</tr>
<tr>
<td>Database</td>
<td>Gets or sets the name of the database to connect to. Issues a <code>USE</code> <code>db_name</code> statement when you start <strong>SqlCmd</strong>. This option sets the <strong>SqlCmd</strong> scripting variable <code>SQLCMDDBNAME</code>. This specifies the initial database. The default is your login's default-database property. If the database does not exist, an error message is generated and <strong>SqlCmd</strong> exits.</td>
</tr>
<tr>
<td>DedicatedAdminConnection</td>
<td>Gets or sets a flag that indicates if the connection to SQL Server should use a Dedicated Administrator Connection (DAC). This kind of connection is used to troubleshoot a server. This will only work with server computers that support DAC. If DAC is not available, <strong>SqlCmd</strong> generates an error message and then exits. For more information about DAC, see Using a Dedicated Administrator Connection.</td>
</tr>
<tr>
<td>DisableVariableSubstitution</td>
<td>Causes <strong>SqlCmd</strong> to ignore scripting variables. This is useful when a script contains many INSERT statements that may contain strings that have the same format as regular variables, such as <code>$variable_name</code>.</td>
</tr>
<tr>
<td>EchoInput</td>
<td>Gets or sets a flag that indicates if the input scripts are written to the standard output device (<strong>stdout</strong>).</td>
</tr>
<tr>
<td>EnableQuotedIdentifiers</td>
<td>Gets or sets a flag that sets the connection option to <code>SET QUOTED_IDENTIFIER</code> <code>ON</code>. By default, it is set to <code>OFF</code>.</td>
</tr>
</tbody>
</table>
For more information, see \texttt{SET QUOTED_IDENTIFIER (Transact-SQL)}.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Headers</strong></td>
<td>Specifies the number of rows to print between the column headings. The default is to print headings one time for each set of query results. This option sets the sqlcmd scripting variable \texttt{SQLCMDHEADERS}. Use -1 to specify that headers must not be printed. Any value that is not valid causes SqlCmd to generate an error message and then exit.</td>
</tr>
<tr>
<td><strong>InputFiles</strong></td>
<td>Gets or sets the path to a file that contains a batch of SQL statements. Multiple files may be specified that will be read and processed in order. Do not use any spaces between the file names. SqlCmd will first check to see whether all files exist. If one or more files do not exist, SqlCmd will exit. The InputFiles and CommandLineQuery options are mutually exclusive. Please note that if you provide a large number of files, you may exceed the maximum length of a command line (<a href="http://support.microsoft.com/kb/830473">http://support.microsoft.com/kb/830473</a>). It's recommended you make use of smaller batches if you encounter this issue.</td>
</tr>
<tr>
<td><strong>LoginTimeout</strong></td>
<td>Gets or sets the number of seconds before the SqlCmd login to the OLE DB provider times out when you try to connect to a server. The default login time-out for SqlCmd is eight (8) seconds. The login time-out value must be a number between 0 and 65534. If the value supplied is not numeric or does not fall into that range, the SqlCmd generates an error message. A value of 0 specifies the time-out to be indefinite.</td>
</tr>
<tr>
<td><strong>LogOn</strong></td>
<td>Gets or sets the user login id. If neither the LogOn or Password option is specified, SqlCmd tries to connect by using Microsoft Windows Authentication mode. Authentication is based on the Windows account of the user who is running SqlCmd. <strong>Note:</strong> The \texttt{OSQLUSER} environment variable is available for backwards compatibility. The \texttt{SQLCMDUSER} environment variable takes precedence over the \texttt{OSQLUSER} environment variable. This means that SqlCmd and osql can be used next to each other without interference.</td>
</tr>
<tr>
<td><strong>NewPassword</strong></td>
<td>Changes the password for a user.</td>
</tr>
<tr>
<td><strong>OutputFile</strong></td>
<td>Gets or sets the file that receives output from SqlCmd. If the UnicodeOutput option is specified, the output file is stored in Unicode format. If the file name is not valid, an error message is generated, and SqlCmd exits. SqlCmd does not support concurrent writing of multiple SqlCmd processes to the same file. The file output will be corrupted or incorrect. This file will be created if it does not exist. A file of the same</td>
</tr>
</tbody>
</table>
name from a prior SqlCmd session will be overwritten. The file specified here is not the stdout file. If a stdout file is specified this file will not be used.

| **Password** | Gets or sets the user specified password. Passwords are case-sensitive. If the LogOn option is used and the Password option is not used, and the $SQLCMDPASSWORD$ environment variable has not been set, SqlCmd uses the default password (NULL). |
| **QueryTimeout** | Gets or sets the number of seconds before a command (or SQL statement) times out. This option sets the SqlCmd scripting variable $SQLCMDSTATTIMEOUT$. If a time_out value is not specified, the command does not time out. The query time_out must be a number between 1 and 65535. If the value supplied is not numeric or does not fall into that range, SqlCmd generates an error message. **Note:** The actual time out value may vary from the specified time_out value by several seconds. |
| **RedirectStandardError** | Gets or sets a flag that indicates whether or not to redirect the error message output to the screen (stderr). If you do not specify a parameter or if you specify 0, only error messages that have a severity level of 11 or higher are redirected. If you specify 1, all error message output including PRINT is redirected. Has no effect if you use OutputFile. By default, messages are sent to stdout. |
| **Server** | Gets or sets the name of the SQL Server to which to connect. It sets the SqlCmd scripting variable $SQLCMDSERVER$. Specify Server to connect to the default instance of SQL Server on that server computer. Specify Server to connect to a named instance of SQL Server on that server computer. If no server computer is specified, SqlCmd connects to the default instance of SQL Server on the local computer. This option is required when you execute sqlcmd from a remote computer on the network. If you do not specify a Server when you start SqlCmd, SQL Server checks for and uses the $SQLCMDSERVER$ environment variable. **Note:** The $OSQLSERVER$ environment variable has been kept for backward compatibility. The $SQLCMDSERVER$ environment variable takes precedence over the $OSQLSERVER$ environment variable. |
| **SeverityLevel** | Controls the severity level that is used to set the ERRORLEVEL variable. If the ERRORLEVEL reported is >= |
SeverityLevel then the task will log an error.

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SqlCmdPath</td>
<td>Gets or sets the path to the sqlcmd.exe.</td>
</tr>
<tr>
<td>UnicodeOutput</td>
<td>Gets or sets a flag that indicates if the OutputFile is stored in Unicode format, regardless of the format of the InputFiles.</td>
</tr>
<tr>
<td>UseClientRegionalSettings</td>
<td>Gets or sets a flag that indicates if the SQL Server OLE DB provider uses the client regional settings when it converts currency, and date and time data to character data. The default is server regional settings.</td>
</tr>
<tr>
<td>Variables</td>
<td>Creates a SqlCmd scripting variable that can be used in a SqlCmd script. You can specify multiple Variables and values. If there are errors in any of the values specified, SqlCmd generates an error message and then exits.</td>
</tr>
<tr>
<td>Workstation</td>
<td>Gets or sets the workstation name. This option sets the SqlCmd scripting variable SQLCMDWORKSTATION. The workstation name is listed in the hostname column of the sys.processes catalog view and can be returned using the stored procedure sp_who. If this option is not specified, the default is the current computer name. This name can be used to identify different sqlcmd sessions.</td>
</tr>
</tbody>
</table>

See Also

Reference
SqlCmd Class
MSBuild.ExtensionPack.SqlServer Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
SqlCmdCommandLineQuery Property

Gets or sets one or more command line queries to execute when SqlCmd starts, but does not exit sqlcmd when the query has finished running.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
SqlCmd Class
MSBuild.ExtensionPack.SqlServer Namespace

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**(SqlCmdDatabase** Property

Gets or sets the name of the database to connect to. Issues a

```
USE
```

*db_name* statement when you start *SqlCmd*. This option sets the *SqlCmd* scripting variable *SQLCMDDBNAME*. This specifies the initial database. The default is your login's default-database property. If the database does not exist, an error message is generated and *SqlCmd* exits.

**Namespace:** MSBuild.ExtensionPack.SqlServer

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  Version: 4.0.0.0

**See Also**

Reference

*SqlCmd Class*

*MSBuild.ExtensionPack.SqlServer Namespace*

---

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SqlCmdDedicatedAdminConnection Property

Gets or sets a flag that indicates if the connection to SQL Server should use a Dedicated Administrator Connection (DAC). This kind of connection is used to troubleshoot a server. This will only work with server computers that support DAC. If DAC is not available, SqlCmd generates an error message and then exits. For more information about DAC, see Using a Dedicated Administrator Connection.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
SqlCmd Class
MSBuild.ExtensionPack.SqlServer Namespace

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SqlCmdDisableVariableSubstitution Property

Causes SqlCmd to ignore scripting variables. This is useful when a script contains many INSERT statements that may contain strings that have the same format as regular variables, such as $(variable_name).

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

SqlCmd Class
MSBuild.ExtensionPack.SqlServer Namespace

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**SqlCommandEchoInput Property**

Gets or sets a flag that indicates if the input scripts are written to the standard output device (**stdout**).

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

SqlCommand Class  
MSBuild.ExtensionPack.SqlServer Namespace

---

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SqlCmdEnableQuotedIdentifiers Property

 Gets or sets a flag that sets the

\[\text{SET \ QUOTED\_IDENTIFIER}\]

connection option to

ON

By default, it is set to

OFF

For more information, see SET QUOTED_IDENTIFYER (Transact-SQL).

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
SqlCmd Class
MSBuild.ExtensionPack.SqlServer Namespace

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**SqlCommandHeaders**

**Property**

Specifies the number of rows to print between the column headings. The default is to print headings one time for each set of query results. This option sets the sqlcmd scripting variable `SQLCMDHEADERS`. Use -1 to specify that headers must not be printed. Any value that is not valid causes SqlCmd to generate an error message and then exit.

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**

SqlCommand Class  
MSBuild.ExtensionPack.SqlServer Namespace

---

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**SqlCmdInputFiles**

**Property**

Gets or sets the path to a file that contains a batch of SQL statements. Multiple files may be specified that will be read and processed in order. Do not use any spaces between the file names. *SqlCmd* will first check to see whether all files exist. If one or more files do not exist, *SqlCmd* will exit. The **InputFiles** and **CommandLineQuery** options are mutually exclusive.

Please note that if you provide a large number of files, you may exceed the maximum length of a command line (http://support.microsoft.com/kb/830473). It's recommended you make use of smaller batches if you encounter this issue.

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

SqlCmd Class  
MSBuild.ExtensionPack.SqlServer Namespace

---

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SqlCmdLoginTimeout Property

Gets or sets the number of seconds before the SqlCmd login to the OLE DB provider times out when you try to connect to a server. The default login timeout for SqlCmd is eight (8) seconds. The login time-out value must be a number between 0 and 65534. If the value supplied is not numeric or does not fall into that range, the SqlCmd generates an error message. A value of 0 specifies the time-out to be indefinite.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
SqlCmd Class
MSBuild.ExtensionPack.SqlServer Namespace

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**SqlCmdLogOn Property**  

MSBuild Extension Pack Help 4.0.12.0

Gets or sets the user login id. If neither the **LogOn** or **Password** option is specified, `SqlCmd` tries to connect by using Microsoft Windows Authentication mode. Authentication is based on the Windows account of the user who is running `SqlCmd`.

**Note:** The `OSQLUSER` environment variable is available for backwards compatibility. The `SQLCMDUSER` environment variable takes precedence over the `OSQLUSER` environment variable. This means that `SqlCmd` and `osql` can be used next to each other without interference.

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

---

**See Also**

Reference  
`SqlCmd Class`  
MSBuild.ExtensionPack.SqlServer Namespace

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SqlCmdNewPassword Property

Changes the password for a user.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
SqlCmd Class
MSBuild.ExtensionPack.SqlServer Namespace

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(SqlCmdProperty

Gets or sets the file that receives output from SqlCmd.

If the UnicodeOutput option is specified, the output file is stored in Unicode format. If the file name is not valid, an error message is generated, and SqlCmd exits. SqlCmd does not support concurrent writing of multiple SqlCmd processes to the same file. The file output will be corrupted or incorrect. This file will be created if it does not exist. A file of the same name from a prior SqlCmd session will be overwritten. The file specified here is not the stdout file. If a stdout file is specified this file will not be used.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
SqlCmd Class
MSBuild.ExtensionPack.SqlServer Namespace
**SqlCmdPassword Property**

Gets or sets the user specified password. Passwords are case-sensitive. If the LogOn option is used and the **Password** option is not used, and the SQLCMDPASSWORD environment variable has not been set, SqlCmd uses the default password (NULL).

**Namespace:** MSBuild.ExtensionPack.SqlServer
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

**See Also**

Reference
SqlCmd Class
MSBuild.ExtensionPack.SqlServer Namespace

---

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SqlCmdQueryTimeout Property

Gets or sets the number of seconds before a command (or SQL statement) times out. This option sets the SqlCmd scripting variable SQLCMDSTATTIMEOUT. If a time_out value is not specified, the command does not time out. The query time_out must be a number between 1 and 65535. If the value supplied is not numeric or does not fall into that range, SqlCmd generates an error message.

Note: The actual time out value may vary from the specified time_out value by several seconds.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
SqlCmd Class
MSBuild.ExtensionPack.SqlServer Namespace

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**SqlCommandRedirectStandardError**

Gets or sets a flag that indicates whether or not to redirect the error message output to the screen (**stderr**). If you do not specify a parameter or if you specify 0, only error messages that have a severity level of 11 or higher are redirected. If you specify 1, all error message output including PRINT is redirected. Has no effect if you use **OutputFile**. By default, messages are sent to **stdout**.

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

- Reference
- SqlCommand Class
- MSBuild.ExtensionPack.SqlServer Namespace

---

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**SqlCmdServer Property**  
MSBuild Extension Pack Help 4.0.12.0

Gets or sets the name of the SQL Server to which to connect. It sets the **SqlCmd** scripting variable **SQLCMDSERVER**.

Specify **Server** to connect to the default instance of SQL Server on that server computer. Specify **Server** to connect to a named instance of SQL Server on that server computer. If no server computer is specified, **SqlCmd** connects to the default instance of SQL Server on the local computer. This option is required when you execute sqlcmd from a remote computer on the network.

If you do not specify a **Server** when you start **SqlCmd**, SQL Server checks for and uses the **SQLCMDSERVER** environment variable.

**Note:** The **OSQLSERVER** environment variable has been kept for backward compatibility. The **SQLCMDSERVER** environment variable takes precedence over the **OSQLSERVER** environment variable.

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

### See Also

**Reference**

**SqlCmd Class**

MSBuild.ExtensionPack.SqlServer Namespace

---

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SqlCmdSeverityLevel Property

Controls the severity level that is used to set the ERRORLEVEL variable. If the ERRORLEVEL reported is >= SeverityLevel then the task will log an error.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
SqlCmd Class
MSBuild.ExtensionPack.SqlServer Namespace

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SqlCmd.SqlCmdPath Property

Gets or sets the path to the sqlcmd.exe.

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

- SqlCmd Class
- MSBuild.ExtensionPack.SqlServer Namespace

---

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SqlCmdUnicodeOutput Property

Gets or sets a flag that indicates if the OutputFile is stored in Unicode format, regardless of the format of the InputFiles.

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

*Reference*

SqlCmd Class  
MSBuild.ExtensionPack.SqlServer Namespace

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SqlCmdUseClientRegionalSettings Property

Gets or sets a flag that indicates if the SQL Server OLE DB provider uses the client regional settings when it converts currency, and date and time data to character data. The default is server regional settings.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

SqlCmd Class
MSBuild.ExtensionPack.SqlServer Namespace

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<table>
<thead>
<tr>
<th><strong>SqlCmdVariables</strong> Property</th>
<th><strong>MSBuild Extension Pack Help 4.0.12.0</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Creates a <em>SqlCmd</em> scripting variable that can be used in a <em>SqlCmd</em> script. You can specify multiple <em>Variables</em> and values. If there are errors in any of the values specified, <em>SqlCmd</em> generates an error message and then exits.</td>
<td></td>
</tr>
</tbody>
</table>

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

- *SqlCmd Class*
- MSBuild.ExtensionPack.SqlServer Namespace

---

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**SqlCmdWorkstation Property**

Gets or sets the workstation name. This option sets the `SqlCmd` scripting variable `SQLCMDWORKSTATION`. The workstation name is listed in the `hostname` column of the `sys.processes` catalog view and can be returned using the stored procedure `sp_who`. If this option is not specified, the default is the current computer name. This name can be used to identify different sqlcmd sessions.

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

SqlCmd Class

MSBuild.ExtensionPack.SqlServer Namespace

---

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**SqlExecute Class**

**Valid TaskActions are:**

*Execute* *(Required: ConnectionString, Sql or Files Optional: CodePage, CommandTimeout, Parameters, Retry, UseTransaction, IgnoreScriptErrors, StripMultiLineComments Output: FailedScripts)*

*ExecuteRawReader* *(Required: ConnectionString, Sql Optional: CodePage, CommandTimeout, Parameters, Retry, UseTransaction, IgnoreScriptErrors Output: RawReaderResult, FailedScripts)*

*ExecuteReader* *(Required: ConnectionString, Sql Optional: CodePage, CommandTimeout, Parameters, Retry, UseTransaction, IgnoreScriptErrors Output: ReaderResult, FailedScripts)*

*ExecuteScalar* *(Required: ConnectionString, Sql Optional: CodePage, CommandTimeout, Parameters, Retry, UseTransaction, IgnoreScriptErrors Output: ScalarResult, FailedScripts)*

**Remote Execution Support:** NA

**Inheritance Hierarchy**


**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

The SqlExecute type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>❥️ SqlExecute</td>
<td></td>
</tr>
</tbody>
</table>

**Top**

**Properties**
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CodePage</strong></td>
<td>Allows setting encoding code page to be used. Default is System.Text.Encoding.Default All code pages are listed here: <a href="http://msdn.microsoft.com/en-us/library/system.text.encoding">http://msdn.microsoft.com/en-us/library/system.text.encoding</a></td>
</tr>
<tr>
<td><strong>CommandTimeout</strong></td>
<td>Sets the timeout in seconds. Default is 30</td>
</tr>
<tr>
<td><strong>ConnectionString</strong></td>
<td>Sets the connection string to use for executing the Sql or Files</td>
</tr>
<tr>
<td><strong>FailedScripts</strong></td>
<td>A list of failed scripts. Each will have metadata item ErrorMessage set to the error encountered.</td>
</tr>
<tr>
<td><strong>Files</strong></td>
<td>Sets the files to execute</td>
</tr>
<tr>
<td><strong>IgnoreScriptErrors</strong></td>
<td>Ignore any script errors, i.e. continue executing any remaining scripts when an error is encountered. Failed scripts will be returned in the FailedScripts output item.</td>
</tr>
<tr>
<td><strong>Parameters</strong></td>
<td>Sets the parameters to substitute at execution time. These are CASE SENSITIVE.</td>
</tr>
<tr>
<td><strong>RawReaderResult</strong></td>
<td>Gets the raw output from the reader</td>
</tr>
<tr>
<td><strong>ReaderResult</strong></td>
<td>Gets the output from a reader in an Item with metadata matching the names of columns. The first column returned will be used as the identity.</td>
</tr>
<tr>
<td><strong>Retry</strong></td>
<td>Specifies whether files should be re-executed if they initially fail</td>
</tr>
<tr>
<td><strong>ScalarResult</strong></td>
<td>Gets the scalar result</td>
</tr>
<tr>
<td><strong>Sql</strong></td>
<td>Sets the Sql to execute</td>
</tr>
<tr>
<td><strong>StripMultiLineComments</strong></td>
<td>Specifies whether to parse out multi-line comments before executing. This can be handy if your comments contain GO statements. Please note that if your sql contains code with /* in it, then you should set this to false. Default is true.</td>
</tr>
<tr>
<td><strong>UseTransaction</strong></td>
<td>Set to true to run the sql within a transaction</td>
</tr>
</tbody>
</table>

### Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\.Common\MSBuild.ExtensionPack.tasks')" />
  </PropertyGroup>
  <Import Project="$(TPath)" />
```
<ItemGroup>
  <Files Include="C:\a\Proc1.sql"/>
  <Files Include="C:\a\Proc2.sql"/>
  <Files Include="C:\a\Proc3.sql"/>
  <File2s Include="C:\a\SQLQuery1.sql"/>
  <File2s Include="C:\a\SQLQuery2.sql"/>
</ItemGroup>
<Target Name="Default">
  <!-- Execute SQL and return a scalar -->
      <Output PropertyName="ScResult" TaskParameter
      <Message Text="$(ScResult)"/>
  <!-- Execute SQL and return the result in raw text form -->
      <Output PropertyName="RawResult" TaskParameter
      <Message Text="$(RawResult)"/>
  <!-- Execute SQL and return the result in an Item. Each column is available as metadata -->
      <Output ItemName="RResult" TaskParameter
      <Message Text="%(RResult.Identity) - %(RResult.object_id)"/>
  <!-- Execute some sql files -->
  <!-- Use Parameter substitution -->
  <ItemGroup>
    <SqlFiles Include="createLinkedServer.sql"
    <SqlParameters Include="true">
      <name>%24(LINKEDSERVER)</name>
      <value>myserver\myinstance</value>
    </SqlParameters>
  </ItemGroup>
</Target>
</Project>
**SqlExecute Constructor**  MSBuild Extension Pack Help 4.0.12.0

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

Reference
SqlExecute Class
MSBuild.ExtensionPack.SqlServer Namespace

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The `SqlExecute` type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CodePage</strong></td>
<td>Allows setting encoding code page to be used. Default is <code>System.Text.Encoding.Default</code>. All code pages are listed here: <code>http://msdn.microsoft.com/en-us/library/system.text.encoding</code></td>
</tr>
<tr>
<td><strong>CommandTimeout</strong></td>
<td>Sets the timeout in seconds. Default is 30</td>
</tr>
<tr>
<td><strong>ConnectionString</strong></td>
<td>Sets the connection string to use for executing the <code>Sql</code> or <code>Files</code></td>
</tr>
<tr>
<td><strong>FailedScripts</strong></td>
<td>A list of failed scripts. Each will have metadata item <code>ErrorMessage</code> set to the error encountered.</td>
</tr>
<tr>
<td><strong>Files</strong></td>
<td>Sets the files to execute</td>
</tr>
<tr>
<td><strong>IgnoreScriptErrors</strong></td>
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</tr>
<tr>
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<td>Gets the scalar result</td>
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<tr>
<td><strong>Sql</strong></td>
<td>Sets the <code>Sql</code> to execute</td>
</tr>
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<td>Specifies whether to parse out multi-line comments before executing. This can be handy if your comments contain GO statements. Please note that if your sql contains code with /* in it, then you should set this to false. Default is true.</td>
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<td><strong>UseTransaction</strong></td>
<td>Set to true to run the sql within a transaction</td>
</tr>
</tbody>
</table>

Top

**See Also**
## SqlExecuteCodePage Property

Allows setting encoding code page to be used. Default is System.Text.Encoding.Default All code pages are listed here: http://msdn.microsoft.com/en-us/library/system.text.encoding

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

### See Also

**Reference**

- SqlExecute Class
- MSBuild.ExtensionPack.SqlServer Namespace

---

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SqlExecuteCommandTimeout Property

Sets the timeout in seconds. Default is 30

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
SqlExecute Class
MSBuild.ExtensionPack.SqlServer Namespace

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**SqlExecuteConnectionString Property**

Sets the connection string to use for executing the Sql or Files

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
SqlExecute Class  
MSBuild.ExtensionPack.SqlServer Namespace

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SqlExecuteFailedScripts Property

A list of failed scripts. Each will have metadata item ErrorMessage set to the error encountered.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
SqlExecute Class
MSBuild.ExtensionPack.SqlServer Namespace

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**SqlExecuteFiles Property**  MSBuild Extension Pack Help 4.0.12.0

Sets the files to execute

**Namespace:**  MSBuild.ExtensionPack.SqlServer  
**Assembly:**  MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:**  4.0.0.0

**See Also**

Reference

SqlExecute Class
MSBuild.ExtensionPack.SqlServer Namespace

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SqlExecuteIgnoreScriptErrors  MSBuild Extension Pack Help

Property

Ignore any script errors, i.e. continue executing any remaining scripts when an error is encountered. Failed scripts will be returned in the FailedScripts output item.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

SqlExecute Class
MSBuild.ExtensionPack.SqlServer Namespace

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SqlExecuteParameters Property

Sets the parameters to substitute at execution time. These are CASE SENSITIVE.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
SqlExecute Class
MSBuild.ExtensionPack.SqlServer Namespace

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**SqlExecuteRawReaderResult**  
**Property**

Gets the raw output from the reader

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

---

**See Also**

**Reference**  
*SqlExecute Class*  
*MSBuild.ExtensionPack.SqlServer Namespace*

---

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Send comments on this topic to [MSBuild ExtensionPack Feedback](mailto:MSBuildExtensionPackFeedback@msbuildextensionpack.com)
See Also

**SqlExecute Class**

**MSBuild.ExtensionPack.SqlServer Namespace**

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
SqlExecuteRetry Property

Specifies whether files should be re-executed if they initially fail

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

SqlExecute Class  
MSBuild.ExtensionPack.SqlServer Namespace

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SqlExecuteScalarResult Property

Gets the scalar result

**Namespace:** MSBuild.ExtensionPack.SqlServer

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

Reference

SqlExecute Class

MSBuild.ExtensionPack.SqlServer Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
SqlExecuteSql Property  

Sets the Sql to execute

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

See Also

Reference

SqlExecute Class
MSBuild.ExtensionPack.SqlServer Namespace

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SqlExecuteStripMultiLineComments Property

Specifies whether to parse out multi-line comments before executing. This can be handy if your comments contain GO statements. Please note that if your sql contains code with /* in it, then you should set this to false. Default is true.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

SqlExecute Class
MSBuild.ExtensionPack.SqlServer Namespace
**SqlExecuteUseTransaction Property**

Set to true to run the sql within a transaction

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**

- SqlExecute Class
- MSBuild.ExtensionPack.SqlServer Namespace

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**SqlVersion Class**

The SqlVersion task provides the ability to manage multiple build versions in a simple database table.

**Valid TaskActions are:**

*GetVersion* *(Required: BuildName, DatabaseName Optional: Delimiter, FieldToIncrement, PaddingCount, PaddingDigit Output: Build, Major, Minor, Revision, Version)*

**Remote Execution Support:** Yes

**Inheritance Hierarchy**

```
SystemObject  Microsoft.Build.UtilitiesTask
  MSBuild.ExtensionPackBaseTask
```

**Namespace:** MSBuild.ExtensionPack.SqlServer

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The *SqlVersion* type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SqlVersion</td>
<td></td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Build</td>
<td>Build component of build number</td>
</tr>
<tr>
<td>BuildName</td>
<td>The name of the build number sequence to query</td>
</tr>
<tr>
<td>DatabaseName</td>
<td>The name of the database which contains the BuildNumber table</td>
</tr>
<tr>
<td>Delimiter</td>
<td>Sets the Delimiter to use in the version number. Default is .</td>
</tr>
<tr>
<td>FieldToIncrement</td>
<td>Number indicating which field is to be incremented. 0 = none (read out</td>
</tr>
</tbody>
</table>
last number generated), 1-4 = Major, Minor, Build, Increment.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major</td>
<td>Major component of build number</td>
</tr>
<tr>
<td>Minor</td>
<td>Minor component of build number</td>
</tr>
<tr>
<td>PaddingCount</td>
<td>Sets the number of padding digits to use, e.g. 4</td>
</tr>
<tr>
<td>PaddingDigit</td>
<td>Sets the padding digit to use, e.g. 0</td>
</tr>
<tr>
<td>Revision</td>
<td>Revision component of build number</td>
</tr>
<tr>
<td>Version</td>
<td>Gets the full four part Version</td>
</tr>
</tbody>
</table>

**Remarks**

The following TSQL can be used to create the supported table structure:

```sql
USE [YOURDATABASENAME]
GO
IF EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[dbo].[BuildNumbers]') AND type in (N'U'))
DROP TABLE [dbo].[BuildNumbers];
GO
SET ANSI_NULLS ON;
GO
SET QUOTED_IDENTIFIER ON;
GO
SET ANSI_PADDING ON;
GO
CREATE TABLE [dbo].[BuildNumbers](
  [SequenceName] [varchar](50) NOT NULL,
  [Major] [int] NOT NULL,
  [Minor] [int] NOT NULL,
```
[Build] [int] NOT NULL,
[Increment] [int] NOT NULL,
CONSTRAINT [PK_BuildNumbers_1] PRIMARY KEY CLUSTERED
(
[SequenceName] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF,
IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY];
GO
SET ANSI_PADDING OFF;
GO

Valid TaskActions are:

GetVersion (Required: BuildName, DatabaseName Optional:
FieldToIncrement, Delimiter, PaddingCount, PaddingDigit Output: Major,
Minor, Build, Revision, Version)

Remote Execution Support: NA

Examples
<Target Name="BuildNumberOverrideTarget">
 <PropertyGroup>
   <FieldToIncrement Condition="'$(IncrementalBuild)'=='true'">
   <FieldToIncrement Condition="'$(IncrementalBuild)'!='true'">
 </PropertyGroup>
 <!-- Get the latest build number without increment -->
   <Output TaskParameter="Version" PropertyName="LatestVersion" />
 <!-- Get the latest build number and increment a
  <Output TaskParameter="Major" PropertyName=""/>
  <Output TaskParameter="Minor" PropertyName=""/>
  <Output TaskParameter="Build" PropertyName=""/>
  <Output TaskParameter="Revision" PropertyName=""/>

<!-- Override Team Build BuildNumber property -->
<PropertyGroup>
  <BuildNumber>$(BuildMajor).$(BuildMinor).$(BuildBuild).$(BuildRevision)
</PropertyGroup>

<!-- Export values so they can be seen by target -->
<PropertyGroup>
  <CustomPropertiesForBuild>$(CustomPropertiesForBuild);BuildMajor=$(BuildMajor);BuildMinor=$(BuildMinor);BuildBuild=$(BuildBuild);BuildRevision=$(BuildRevision)
</PropertyGroup>

<!-- Get the latest build number without incrementing it -->
  <Output TaskParameter="Version" PropertyName=""/>

<Message Text="LatestVersion is: $(LatestVersion)"/>
</Target>

See Also
Reference
MSBuild.ExtensionPack.SqlServer Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**SqlVersion Constructor**  MSBuild Extension Pack Help 4.0.12.0

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

---

**Reference**

SqlVersion Class  
MSBuild.ExtensionPack.SqlServer Namespace

---

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The `SqlVersion` type exposes the following members.

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Build</td>
<td>Build component of build number</td>
</tr>
<tr>
<td>BuildName</td>
<td>The name of the build number sequence to query</td>
</tr>
<tr>
<td>DatabaseName</td>
<td>The name of the database which contains the <code>BuildNumber</code> table</td>
</tr>
<tr>
<td>Delimiter</td>
<td>Sets the Delimiter to use in the version number. Default is .</td>
</tr>
<tr>
<td>FieldToIncrement</td>
<td>Number indicating which field is to be incremented. 0 = none (read out last number generated), 1-4 = Major, Minor, Build, Increment.</td>
</tr>
<tr>
<td>Major</td>
<td>Major component of build number</td>
</tr>
<tr>
<td>Minor</td>
<td>Minor component of build number</td>
</tr>
<tr>
<td>PaddingCount</td>
<td>Sets the number of padding digits to use, e.g. 4</td>
</tr>
<tr>
<td>PaddingDigit</td>
<td>Sets the padding digit to use, e.g. 0</td>
</tr>
<tr>
<td>Revision</td>
<td>Revision component of build number</td>
</tr>
<tr>
<td>Version</td>
<td>Gets the full four part Version</td>
</tr>
</tbody>
</table>

### See Also

**SqlVersion Class**

**MSBuild.ExtensionPack.SqlServer Namespace**

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**SqlVersionBuild Property**

Build component of build number

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

SqlVersion Class  
MSBuild.ExtensionPack.SqlServer Namespace

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**SqlVersionBuildName Property**

The name of the build number sequence to query

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

---

**See Also**

**Reference**

*SqlVersion Class*  
*MSBuild.ExtensionPack.SqlServer Namespace*

---

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## SqlVersionDatabaseName

The name of the database which contains the BuildNumber table

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

### See Also

Reference:  
SqlVersion Class  
MSBuild.ExtensionPack.SqlServer Namespace

---

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SqlVersionDelimiter Property

Sets the Delimiter to use in the version number. Default is .

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also

Reference

SqlVersion Class  
MSBuild.ExtensionPack.SqlServer Namespace

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**SqlVersionFieldToIncrement**  
**Property**

Number indicating which field is to be incremented. 0 = none (read out last number generated), 1-4 = Major, Minor, Build, Increment. 

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
SqlVersion Class  
MSBuild.ExtensionPack.SqlServer Namespace

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**SqlVersionMajor**

**Property**

Major component of build number

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

SqlVersion Class  
MSBuild.ExtensionPack.SqlServer Namespace

---

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SqlVersionMinor Property

Minor component of build number

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
SqlVersion Class
MSBuild.ExtensionPack.SqlServer Namespace

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SqlVersionPaddingCount Property

Sets the number of padding digits to use, e.g. 4

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
SqlVersion Class
MSBuild.ExtensionPack.SqlServer Namespace

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SqlVersionPaddingDigit Property

Sets the padding digit to use, e.g. 0

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
SqlVersion Class
MSBuild.ExtensionPack.SqlServer Namespace

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**SqlVersionRevision Property**

Revision component of build number

**Namespace:** MSBuild.ExtensionPack.SqlServer  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

- SqlVersion Class  
- MSBuild.ExtensionPack.SqlServer Namespace

---

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SqlVersion Version

Property

Gets the full four part Version

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
SqlVersion Class
MSBuild.ExtensionPack.SqlServer Namespace

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SqlVersionDataClass

Class

Inheritance Hierarchy

System
  Object
  System.Data.Linq.DataContext

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The SqlVersionDataClass type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SqlVersionDataClass</td>
<td></td>
</tr>
<tr>
<td>SqlVersionDataClass(IDbConnection)</td>
<td></td>
</tr>
<tr>
<td>SqlVersionDataClass(String)</td>
<td></td>
</tr>
<tr>
<td>SqlVersionDataClass(IDbConnection, MappingSource)</td>
<td></td>
</tr>
<tr>
<td>SqlVersionDataClass(String, MappingSource)</td>
<td></td>
</tr>
</tbody>
</table>

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BuildNumbers</td>
<td></td>
</tr>
</tbody>
</table>

See Also

Reference

MSBuild.ExtensionPack.SqlServer Namespace

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Overload List

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SqlVersionDataClass</td>
<td></td>
</tr>
<tr>
<td>SqlVersionDataClass(IDbConnection)</td>
<td></td>
</tr>
<tr>
<td>SqlVersionDataClass(String)</td>
<td></td>
</tr>
<tr>
<td>SqlVersionDataClass(IDbConnection, MappingSource)</td>
<td></td>
</tr>
<tr>
<td>SqlVersionDataClass(String, MappingSource)</td>
<td></td>
</tr>
</tbody>
</table>

See Also

SqlVersionDataClass Class
MSBuild.ExtensionPack.SqlServer Namespace

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SqlVersionDataClass Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

SqlVersionDataClass Class
SqlVersionDataClass Overload
MSBuild.ExtensionPack.SqlServer Namespace

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SqlVersionDataClass Constructor
(IDbConnection)

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

SqlVersionDataClass Class
SqlVersionDataClass Overload
MSBuild.ExtensionPack.SqlServer Namespace

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SqlVersionDataClass

Constructor (String)

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

SqlVersionDataClass Class
SqlVersionDataClass Overload
MSBuild.ExtensionPack.SqlServer Namespace

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SqlVersionDataClass Constructor
(IDbConnection, MappingSource)

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
SqlVersionDataClass Class
SqlVersionDataClass Overload
MSBuild.ExtensionPack.SqlServer Namespace

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SqlVersionDataClass Constructor
(String, MappingSource)

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

SqlVersionDataClass Class
SqlVersionDataClass Overload
MSBuild.ExtensionPack.SqlServer Namespace

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The `SqlVersionDataClass` type exposes the following members.

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BuildNumbers</td>
<td></td>
</tr>
</tbody>
</table>

**See Also**

- `SqlVersionDataClass` Class
- `MSBuild.ExtensionPack.SqlServer` Namespace

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SqlVersionDataBuildNumbers Property

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
SqlVersionDataClass Class
MSBuild.ExtensionPack.SqlServer Namespace

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## Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
</table>
| Svn   | **Valid TaskActions are:**  
  *Version* *(Required: Item Output: Info Optional: UserName, UserPassword)*  
  *Info* *(Required: Item Output: Info Optional: UserName, UserPassword)*  
  *GetProperty* *(Required: Item PropertyName Output: PropertyValue Optional: UserName, UserPassword)*  
  *SetProperty* *(Required: Item PropertyName PropertyValue Optional: UserName, UserPassword)*  
  *Checkout* *(Required: Items Destination Optional: UserName, UserPassword)*  
  *Update* *(Required: Items Optional: UserName, UserPassword)*  
  *Add* *(Required: Items Optional: UserName, UserPassword)*  
  *Copy* *(Required: Items Destination Optional: UserName, UserPassword, CommitMessage)*  
  *Delete* *(Required: Items Optional: UserName, UserPassword)*  
  *Move* *(Required: Items Destination Optional: UserName, UserPassword)*  
  *Commit* *(Required: Items Optional: UserName, UserPassword, CommitMessage)*  
  *Export* *(Required: Item Destination Optional: UserName, UserPassword, Force)*

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**Svn Class**

**Valid TaskActions are:**

*Version* *(Required: Item Output: Info Optional: UserName, UserPassword)*

*Info* *(Required: Item Output: Info Optional: UserName, UserPassword)*

*GetProperty* *(Required: Item PropertyName Output: PropertyValue Optional: UserName, UserPassword)*

*SetProperty* *(Required: Item PropertyName PropertyValue Optional: UserName, UserPassword)*

*Checkout* *(Required: Items Destination Optional: UserName, UserPassword)*

*Update* *(Required: Items Optional: UserName, UserPassword)*

*Add* *(Required: Items Optional: UserName, UserPassword)*

*Copy* *(Required: Items Destination Optional: UserName, UserPassword, CommitMessage)*

*Delete* *(Required: Items Optional: UserName, UserPassword)*

*Move* *(Required: Items Destination Optional: UserName, UserPassword)*

*Commit* *(Required: Items Optional: UserName, UserPassword, CommitMessage)*

*Export* *(Required: Item Destination Optional: UserName, UserPassword, Force)*

**Inheritance Hierarchy**

SystemObject  Microsoft.Build.UtilitiesTask
  MSBuild.ExtensionPackBaseTask
  MSBuild.ExtensionPack.SubversionSvn

**Namespace:** MSBuild.ExtensionPack.Subversion

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The **Svn** type exposes the following members.
Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Svn</td>
<td></td>
</tr>
</tbody>
</table>

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CommitMessage</td>
<td>The commit message that the Commit action sends with the commit to the</td>
</tr>
<tr>
<td></td>
<td>repository</td>
</tr>
<tr>
<td>Destination</td>
<td>The destination that the Checkout, Copy, Move and Export actions use.</td>
</tr>
<tr>
<td>Force</td>
<td>Set whether to use Force on Export. Default is false.</td>
</tr>
<tr>
<td>Info</td>
<td>Filled up by the Version and Info actions.</td>
</tr>
<tr>
<td>Item</td>
<td>The item that the Version, Info, GetProperty, SetProperty and Export</td>
</tr>
<tr>
<td></td>
<td>actions use.</td>
</tr>
<tr>
<td>Items</td>
<td>The items that the Checkout, Update, Add, Copy, Delete, Move and Commit</td>
</tr>
<tr>
<td></td>
<td>actions use.</td>
</tr>
<tr>
<td>PropertyName</td>
<td>The name of the property that the GetProperty and SetProperty actions use.</td>
</tr>
<tr>
<td>PropertyValue</td>
<td>The value of the property that the GetProperty action returns and the</td>
</tr>
<tr>
<td></td>
<td>SetProperty action sets.</td>
</tr>
<tr>
<td>TaskAction</td>
<td>(Overrides BaseTaskAction.)</td>
</tr>
</tbody>
</table>

Remarks

The task needs a command-line SVN client (svn.exe and svnversion.exe) to be available. The following are supported and automatically detected:

- any SVN client in the PATH environment variable
- Cygwin 1.7, with the subversion package installed
- TortoiseSVN 1.7, with the command line component installed
- CollabNet Subversion Client 1.7
- Slik SVN 1.7, with the Subversion client component installed
If you publish a project that uses this task, remember to notify your users that they need one of the mentioned clients in order to build your code. The PATH detection allows everyone to set a preference, the other detections are there so that it will just work for most users.

The Version action calls `svnversion.exe`, all other actions call subcommands of `svn.exe`. Some parameters also accept URL's, not just local paths. Please refer to SVN's documentation for more information.

### Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\..\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists($(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks)"/>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- Version -->
      <Output TaskParameter="Info" ItemName="VInfo">
      </Output>
    </MSBuild.ExtensionPack.Subversion.Svn>
    <!-- Info -->
      <Output TaskParameter="Info" ItemName="IInfo">
      </Output>
    </MSBuild.ExtensionPack.Subversion.Svn>
    <Message Text="CommitAuthor: %(IInfo.CommitAuthor), CommitRevision: %(IInfo.CommitRevision), CommitDate: %(IInfo.CommitDate)"
    <!-- GetProperty -->
      <Output TaskParameter="PropertyValue" PropertyName=
      </Output>
    </MSBuild.ExtensionPack.Subversion.Svn>
    <Message Text="PropertyValue: $(GProp)"/>
    <!-- SetProperty -->
  </Target>
</Project>
```
<!-- Checkout -->
<!-- Update -->
<!-- Add -->
<!-- Copy -->
<!-- Delete -->
<!-- Move -->
<!-- Commit with default commit message -->
<!-- Commit with commit message -->
<!-- Export -->
</Target>
</Project>

See Also

Reference

MSBuild.ExtensionPack.Subversion Namespace

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See Also

Reference

Svn Class

MSBuild.ExtensionPack.Subversion Namespace

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The **Svn** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CommitMessage</td>
<td>The commit message that the Commit action sends with the commit to the repository</td>
</tr>
<tr>
<td>Destination</td>
<td>The destination that the Checkout, Copy, Move and Export actions use.</td>
</tr>
<tr>
<td>Force</td>
<td>Set whether to use Force on Export. Default is false.</td>
</tr>
<tr>
<td>Info</td>
<td>Filled up by the Version and Info actions.</td>
</tr>
<tr>
<td>Item</td>
<td>The item that the Version, Info, GetProperty, SetProperty and Export actions use.</td>
</tr>
<tr>
<td>Items</td>
<td>The items that the Checkout, Update, Add, Copy, Delete, Move and Commit actions use.</td>
</tr>
<tr>
<td>PropertyName</td>
<td>The name of the property that the GetProperty and SetProperty actions use.</td>
</tr>
<tr>
<td>PropertyValue</td>
<td>The value of the property that the GetProperty action returns and the SetProperty action sets.</td>
</tr>
<tr>
<td>TaskAction</td>
<td>(Overrides <strong>BaseTaskAction</strong>)</td>
</tr>
</tbody>
</table>

## See Also

**Reference**

**Svn Class**

MSBuild.ExtensionPack.Subversion Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**SvnCommitMessage**

Property

The commit message that the Commit action sends with the commit to the repository

**Namespace:** MSBuild.ExtensionPack.Subversion  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
Svn Class  
MSBuild.ExtensionPack.Subversion Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**SvnDestination Property**  MSBuild Extension Pack Help 4.0.12.0

The destination that the Checkout, Copy, Move and Export actions use.

**Namespace:**  MSBuild.ExtensionPack.Subversion  
**Assembly:**  MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:**  4.0.0.0

**See Also**

Reference  
Svn Class  
MSBuild.ExtensionPack.Subversion Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**SvnForce Property**  
Set whether to use Force on Export. Default is false.

**Namespace:** MSBuild.ExtensionPack.Subversion  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
*Svn Class*  
**MSBuild.ExtensionPack.Subversion Namespace**

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Send comments on this topic to MSBuild ExtensionPack Feedback
**SvnInfo Property**

Filled up by the Version and Info actions.

**Namespace:** MSBuild.ExtensionPack.Subversion  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

Svn Class

MSBuild.ExtensionPack.Subversion Namespace

---

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SvnItem Property

The item that the Version, Info, GetProperty, SetProperty and Export actions use.

Namespace: MSBuild.ExtensionPack.Subversion
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Svn Class
MSBuild.ExtensionPack.Subversion Namespace

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SvnItems Property

The items that the Checkout, Update, Add, Copy, Delete, Move and Commit actions use.

Namespace: MSBuild.ExtensionPack.Subversion
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Svn Class
MSBuild.ExtensionPack.Subversion Namespace

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SvnPropertyName

Property

The name of the property that theGetProperty and SetProperty actions use.

**Namespace:** MSBuild.ExtensionPack.Subversion  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference
- Svn Class
- MSBuild.ExtensionPack.Subversion Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**SvnPropertyValue**

**Property**

The value of the property that the GetProperty action returns and the SetProperty action sets.

**Namespace:** MSBuild.ExtensionPack.Subversion

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

Reference

Svn Class

MSBuild.ExtensionPack.Subversion Namespace

---

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See Also

Reference
Svn Class
MSBuild.ExtensionPack.Subversion Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
### Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DlrTaskFactory</td>
<td>A task factory that enables inline scripts to execute as part of an MSBuild-based build.</td>
</tr>
<tr>
<td>PowerShellTaskFactory</td>
<td>A task factory that enables inline PowerShell scripts to execute as part of an MSBuild-based build.</td>
</tr>
</tbody>
</table>
DlrTaskFactory Class

A task factory that enables inline scripts to execute as part of an MSBuild-based build.

Inheritance Hierarchy


The DlrTaskFactory type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DlrTaskFactory</td>
<td></td>
</tr>
</tbody>
</table>

Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CleanupTask</td>
<td>Cleans up the task.</td>
</tr>
<tr>
<td>CreateTask</td>
<td>Creates the task.</td>
</tr>
<tr>
<td>GetTaskParameters</td>
<td>Gets the task parameters.</td>
</tr>
<tr>
<td>Initialize</td>
<td>Initialize</td>
</tr>
</tbody>
</table>

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FactoryName</td>
<td>Gets the name of the factory.</td>
</tr>
<tr>
<td>TaskType</td>
<td>Gets the type of the task.</td>
</tr>
</tbody>
</table>

Examples
<?xml version="1.0" encoding="utf-8"?>
<Project ToolsVersion="4.0"
    DefaultTargets="Build"
    xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
    <UsingTask
        TaskName="HelloWorld"
        TaskFactory="DlrTaskFactory"
        AssemblyFile="$(TaskFactoryPath)MSBuild.ExtensionPack.TaskFactory.Dlr.dll">
        <ParameterGroup>
            <Name Required="true"/>
            <TaskMessage Output="true"/>
        </ParameterGroup>
        <Task>
            <Code Type="Fragment"
                Language="rb">
                <![CDATA[
                    self.task_message = "Hello #{name} from Ruby
                    log.log_message(task_message);
                ]]]>
            </Code>
        </Task>
    </UsingTask>
    <PropertyGroup>
        <YourName Condition=" '$(YourName)'=='' ">World</YourName>
    </PropertyGroup>
    <Target Name="Build">
        <HelloWorld Name="$(YourName)">
            <Output PropertyName="RubyOut"
                TaskParameter="TaskMessage"/>
        </HelloWorld>
        <Message Text="Message from task: $(RubyOut)"
            Importance="high" />  
    </Target>
</Project>
DlrTaskFactory

Constructor

**Namespace:** MSBuild.ExtensionPack.TaskFactory

See Also

Reference

DlrTaskFactory Class
MSBuild.ExtensionPack.TaskFactory Namespace

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The **DlrTaskFactory** type exposes the following members.

## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CleanupTask</td>
<td>Cleans up the task.</td>
</tr>
<tr>
<td>CreateTask</td>
<td>Creates the task.</td>
</tr>
<tr>
<td>GetTaskParameters</td>
<td>Gets the task parameters.</td>
</tr>
<tr>
<td>Initialize</td>
<td>Initialize</td>
</tr>
</tbody>
</table>

## See Also

**Reference**

- **DlrTaskFactory Class**
- **MSBuild.ExtensionPack.TaskFactory Namespace**

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Send comments on this topic to MSBuild ExtensionPack Feedback
**DlrTaskFactoryCleanupTask**  
*Method*

Cleans up the task.

**Namespace:** MSBuild.ExtensionPack.TaskFactory  

---

**See Also**

**Reference**

DlrTaskFactory Class  
MSBuild.ExtensionPack.TaskFactory Namespace

---

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DlrTaskFactory CreateTask Method

Creates the task.

**Namespace:** MSBuild.ExtensionPack.TaskFactory


**See Also**

Reference

DlrTaskFactory Class

MSBuild.ExtensionPack.TaskFactory Namespace

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DlrTaskFactory.GetTaskParameters Method

Gets the task parameters.

**Namespace:** MSBuild.ExtensionPack.TaskFactory  

**See Also**

Reference  
DlrTaskFactory Class  
MSBuild.ExtensionPack.TaskFactory Namespace

---

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DlrTaskFactoryInitialize Method


See Also

Reference
DlrTaskFactory Class
MSBuild.ExtensionPack.TaskFactory Namespace

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**DlrTaskFactory**

Properties

The **DlrTaskFactory** type exposes the following members.

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FactoryName</td>
<td>Gets the name of the factory.</td>
</tr>
<tr>
<td>TaskType</td>
<td>Gets the type of the task.</td>
</tr>
</tbody>
</table>

**See Also**

Reference

- **DlrTaskFactory Class**
- **MSBuild.ExtensionPack.TaskFactory Namespace**

---

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**DlrTaskFactory**

**FactoryName**

Property

Gets the name of the factory.

**Namespace:** MSBuild.ExtensionPack.TaskFactory


---

**See Also**

- Reference
  - DlrTaskFactory Class
  - MSBuild.ExtensionPack.TaskFactory Namespace

---

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**TaskType Property**

Gets the type of the task.

**Namespace:** MSBuild.ExtensionPack.TaskFactory  

**See Also**

Reference  
DlrTaskFactory Class  
MSBuild.ExtensionPack.TaskFactory Namespace  

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Send comments on this topic to MSBuild ExtensionPack Feedback
PowerShellTaskFactory

A task factory that enables inline PowerShell scripts to execute as part of an MSBuild-based build.

Inheritance Hierarchy


The PowerShellTaskFactory type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PowerShellTaskFactory</td>
<td></td>
</tr>
</tbody>
</table>

Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CleanupTask</td>
<td>Cleanup the Task</td>
</tr>
<tr>
<td>CreateTask</td>
<td>Create a Task</td>
</tr>
<tr>
<td>GetTaskParameters</td>
<td>Get the Task Parameters</td>
</tr>
<tr>
<td>Initialize</td>
<td>Initialize the Task Factory</td>
</tr>
</tbody>
</table>

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FactoryName</td>
<td>Get the Factory Name</td>
</tr>
<tr>
<td>TaskType</td>
<td>The type of Task</td>
</tr>
</tbody>
</table>
<Project ToolsVersion="4.0" DefaultTargets="Build" x>
  <PropertyGroup>
    <AssemblyFile>$(MSBuildProjectDirectory)\..\..
    <AssemblyFile Condition="Exists('$(MSBuildPr</PropertyGroup>
  <UsingTask TaskFactory="PowershellTaskFactory" T
  <ParameterGroup>
    <First Required="true" ParameterType="Sy
    <Second Required="true" ParameterType="S
    <Sum Output="true" />
  </ParameterGroup>
  <Task>
    <!-- Make this a proper CDATA section bef
    CDATA[
    if ($first + $second -gt 100) {
      $log.LogError("Oops! I can't count that h
    }
    $sum = $first + $second
    ]]
    </Task>
  </UsingTask>
  <UsingTask TaskFactory="PowershellTaskFactory" T
  <ParameterGroup>
    <First Required="true" ParameterType="Sy
    <Second Required="true" ParameterType="S
    <Difference Output="true" />
  </ParameterGroup>
  <Task>
    <!-- Make this a proper CDATA section bef
    CDATA[
    $difference = $first - $second
    ]
    </Task>
  </UsingTask>
  <PropertyGroup>
<!-- Try making the sum go over 100 to see what happens. --
<PropertyGroup>
    <FirstNumber>5</FirstNumber>
    <SecondNumber>8</SecondNumber>
</PropertyGroup>
<Target Name="Build">
    <Add First="$(FirstNumber)" Second="$(SecondNumber)"
        <Output TaskParameter="Sum" PropertyName="MySum"/>
    </Add>
    <Message Importance="High" Text="The $(FirstNumber) + $(SecondNumber) = $(MySum)"
        <Subtract First="$(FirstNumber)" Second="$(SecondNumber)"
            <Output TaskParameter="Difference" PropertyName="MyDifference"/>
        </Subtract>
        <Message Importance="High" Text="The $(FirstNumber) - $(SecondNumber) = $(MyDifference)"
    </Target>
</Project>

See Also

Reference

MSBuild.ExtensionPack.TaskFactory Namespace

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PowerShellTaskFactory Constructor


See Also
Reference
PowerShellTaskFactory Class
MSBuild.ExtensionPack.TaskFactory Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
The **PowerShellTaskFactory** type exposes the following members.

## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CleanupTask</td>
<td>Cleanup the Task</td>
</tr>
<tr>
<td>CreateTask</td>
<td>Create a Task</td>
</tr>
<tr>
<td>GetTaskParameters</td>
<td>Get the Task Parameters</td>
</tr>
<tr>
<td>Initialize</td>
<td>Initialize the Task Factory</td>
</tr>
</tbody>
</table>

## See Also

- [PowerShellTaskFactory Class](#)
- [MSBuild.ExtensionPack.TaskFactory Namespace](#)

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Send comments on this topic to [MSBuild ExtensionPack Feedback](#)
**PowerShellTaskFactoryCleanupTask**

Cleanup the Task

**Namespace:** MSBuild.ExtensionPack.TaskFactory  

**See Also**

Reference

PowerShellTaskFactory Class  
MSBuild.ExtensionPack.TaskFactory Namespace

---

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**PowerShellTaskFactory.CreateTask**

Create a Task.

**Namespace:** MSBuild.ExtensionPack.TaskFactory


---

**See Also**

Reference

PowerShellTaskFactory Class

MSBuild.ExtensionPack.TaskFactory Namespace

---

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PowerShellTaskFactory.GetTaskParameters Method

Get the Task Parameters


See Also

Reference
PowerShellTaskFactory Class
MSBuild.ExtensionPack.TaskFactory Namespace

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PowerShellTaskFactoryInitialize Method

Initialize the Task Factory

**Namespace:** MSBuild.ExtensionPack.TaskFactory  

See Also

Reference

PowerShellTaskFactory Class  
MSBuild.ExtensionPack.TaskFactory Namespace

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Properties

The **PowerShellTaskFactory** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FactoryName</td>
<td>Get the Factory Name</td>
</tr>
<tr>
<td>TaskType</td>
<td>The type of Task</td>
</tr>
</tbody>
</table>

**See Also**

**Reference**

- **PowerShellTaskFactory Class**
- **MSBuild.ExtensionPack.TaskFactory Namespace**

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PowerShellTaskFactoryFactoryName Property

Get the Factory Name

**Namespace:** MSBuild.ExtensionPack.TaskFactory


**See Also**

Reference

PowerShellTaskFactory Class

MSBuild.ExtensionPack.TaskFactory Namespace

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**PowerShellTaskFactoryTaskType Property**

The type of Task

**Namespace:** MSBuild.ExtensionPack.TaskFactory  

---

**See Also**

Reference  
PowerShellTaskFactory Class  
MSBuild.ExtensionPack.TaskFactory Namespace

---

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### Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TeamBuild</td>
<td><strong>Valid TaskActions are:</strong></td>
</tr>
<tr>
<td></td>
<td><em>GetLatest (Required: TeamFoundationServerUrl, TeamProject Optional:</em> BuildDefinitionName, Status Output: Info)</td>
</tr>
<tr>
<td></td>
<td><em>Queue (Required: TeamFoundationServerUrl, TeamProject, BuildDefinitionName Optional: DropLocation)</em></td>
</tr>
<tr>
<td></td>
<td><em>RelatedChangesets (Required: TeamFoundationServerUrl, TeamProject Optional: BuildUri, BuildDefinitionName Output: Info, RelatedItems)</em></td>
</tr>
<tr>
<td></td>
<td><em>RelatedWorkItems (Required: TeamFoundationServerUrl, TeamProject Optional: BuildUri, BuildDefinitionName Output: Info, RelatedItems)</em></td>
</tr>
<tr>
<td></td>
<td><strong>Remote Execution Support:</strong> NA</td>
</tr>
</tbody>
</table>
TeamBuild Class

Valid TaskActions are:

GetLatest (Required: TeamFoundationServerUrl, TeamProject Optional: BuildDefinitionName, Status Output: Info)

Queue (Required: TeamFoundationServerUrl, TeamProject, BuildDefinitionName Optional: DropLocation)

RelatedChangesets (Required: TeamFoundationServerUrl, TeamProject Optional: BuildUri, BuildDefinitionName Output: Info, RelatedItems)

RelatedWorkItems (Required: TeamFoundationServerUrl, TeamProject Optional: BuildUri, BuildDefinitionName Output: Info, RelatedItems)

Remote Execution Support: NA

Inheritance Hierarchy


The TeamBuild type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TeamBuild</td>
<td></td>
</tr>
</tbody>
</table>

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BuildDefinitionName</td>
<td>The name of the build definition.</td>
</tr>
<tr>
<td>BuildUri</td>
<td>Build Uri. Defaults to latest build.</td>
</tr>
</tbody>
</table>
**DropLocation** | The name of the Drop folder
---|---
**Info** | Gets the Build information
**RelatedItems** | Gets Related items associated with the build
**Status** | Set the Status property of the build to filter the search. Supports: Failed, InProgress, NotStarted, PartiallySucceeded, Stopped, Succeeded
**TeamFoundationServerUrl** | The Url of the Team Foundation Server.
**TeamProject** | The name of the Team Project containing the build

---

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"
    <PropertyGroup>
        <TPath>$(MSBuildProjectDirectory)\..\MSBuild</TPath>
        <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks')" />
    </PropertyGroup>
    <Import Project="$(TPath)"/>
    <PropertyGroup>
        <TeamFoundationServerUrl>http://YOURSERVER:8080/</TeamFoundationServerUrl>
        <TeamProject>YOURPROJECT</TeamProject>
        <BuildUri></BuildUri>
        <BuildDefinitionName>YOURDEF</BuildDefinitionName>
    </PropertyGroup>
    <Target Name="Default">
        <!-- Get information on the latest build -->
        <MSBuild.ExtensionPack.Tfs2012.TeamBuild TaskParameter="$(DropLocation)"
            <Output ItemName="BuildInfo" TaskParameter="%(DropLocation)"/>
        <Message Text="BuildDefinitionUri: %%(BuildInfo.BuildDefinitionUri)"
            <Message Text="BuildFinished: %%(BuildInfo.BuildFinished)"
                <Message Text="BuildNumber: %%(BuildInfo.BuildNumber)"
                    <Message Text="BuildUri: %%(BuildInfo.BuildUri)"
                        <Message Text="CompilationStatus: %%(BuildInfo.CompilationStatus)"
                            <Message Text="CompilationSuccess: %%(BuildInfo.CompilationSuccess)"
                                <Message Text="DropLocation: %%(BuildInfo.Dro```
<Message Text="FinishTime: %(BuildInfo.FinishTime)"
<Message Text="KeepForever: %(BuildInfo.KeepForever)"
<Message Text="LabelName: %(BuildInfo.LabelName)"
<Message Text="LastChangedBy: %(BuildInfo.LastChangedBy)"
<Message Text="LastChangedOn: %(BuildInfo.LastChangedOn)"
<Message Text="LogLocation: %(BuildInfo.LogLocation)"
<Message Text="Quality: %(BuildInfo.Quality)"
<Message Text="Reason: %(BuildInfo.Reason)"
<Message Text="RequestedBy: %(BuildInfo.RequestedBy)"
<Message Text="RequestedFor: %(BuildInfo.RequestedFor)"
<Message Text="StartTime: %(BuildInfo.StartTime)"
<Message Text="TestStatus: %(BuildInfo.TestStatus)"
<Message Text="TestSuccess: %(BuildInfo.TestSuccess)"
</Target>
</Project>

See Also

Reference
MSBuild.ExtensionPack.Tfs2012 Namespace

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See Also

TeamBuild Constructor


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The **TeamBuild** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BuildDefinitionName</td>
<td>The name of the build definition.</td>
</tr>
<tr>
<td>BuildUri</td>
<td>Build Uri. Defaults to latest build.</td>
</tr>
<tr>
<td>DropLocation</td>
<td>The name of the Drop folder</td>
</tr>
<tr>
<td>Info</td>
<td>Gets the Build information</td>
</tr>
<tr>
<td>RelatedItems</td>
<td>Gets Related items associated with the build</td>
</tr>
<tr>
<td>Status</td>
<td>Set the Status property of the build to filter the search. Supports: Failed, InProgress, NotStarted, PartiallySucceeded, Stopped, Succeeded</td>
</tr>
<tr>
<td>TeamFoundationServerUrl</td>
<td>The Url of the Team Foundation Server.</td>
</tr>
<tr>
<td>TeamProject</td>
<td>The name of the Team Project containing the build</td>
</tr>
</tbody>
</table>

## See Also

**Reference**

**TeamBuild Class**

**MSBuild.ExtensionPack.Tfs2012 Namespace**

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
TeamBuildBuildDefinitionName Property

The name of the build definition.

**Namespace:** MSBuild.ExtensionPack.Tfs2012  

**See Also**
Reference

TeamBuild Class  
MSBuild.ExtensionPack.Tfs2012 Namespace

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TeamBuildBuildUri Property

Build Uri. Defaults to latest build.


See Also

Reference
TeamBuild Class
MSBuild.ExtensionPack.Tfs2012 Namespace

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**TeamBuildDropLocation Property**

The name of the Drop folder

**Namespace:** MSBuild.ExtensionPack.Tfs2012  

**See Also**

Reference  
TeamBuild Class  
MSBuild.ExtensionPack.Tfs2012 Namespace

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**TeamBuildInfo Property**  MSBuild Extension Pack Help 4.0.12.0

Gets the Build information

**Namespace:** MSBuild.ExtensionPack.Tfs2012  
**Version:** 4.0.0.0

**See Also**

Reference

TeamBuild Class  
MSBuild.ExtensionPack.Tfs2012 Namespace

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TeamBuildRelatedItems

Property

Gets Related items associated with the build

**Namespace:** MSBuild.ExtensionPack.Tfs2012


See Also

Reference

TeamBuild Class

MSBuild.ExtensionPack.Tfs2012 Namespace
**TeamBuildStatus**

**Property**

Set the Status property of the build to filter the search. Supports: Failed, InProgress, NotStarted, PartiallySucceeded, Stopped, Succeeded

**Namespace:** [MSBuild.ExtensionPack.Tfs2012](#)


---

**See Also**

- Reference
- TeamBuild Class
- MSBuild.ExtensionPack.Tfs2012 Namespace

---

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Send comments on this topic to [MSBuild ExtensionPack Feedback](mailto:feedback@msbuildextensionpack.com)
**TeamBuildTeamFoundationServerUrl**

The URL of the Team Foundation Server.

**Namespace:**  MSBuild.ExtensionPack.Tfs2012  
**Version:**  4.0.0.0

**See Also**

**Reference**

TeamBuild Class  
MSBuild.ExtensionPack.Tfs2012 Namespace

---

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**TeamBuildTeamProject Property**

The name of the Team Project containing the build

**Namespace:** MSBuild.ExtensionPack.Tfs2012  

**See Also**

Reference  
TeamBuild Class  
MSBuild.ExtensionPack.Tfs2012 Namespace

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## Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TeamBuild</strong></td>
<td><strong>Valid TaskActions are:</strong></td>
</tr>
<tr>
<td></td>
<td><em>Latest</em> <em>(Required: TeamFoundationServerUrl, TeamProject Optional: BuildDefinitionName, Status Output: Info)</em></td>
</tr>
<tr>
<td></td>
<td><em>Queue</em> <em>(Required: TeamFoundationServerUrl, TeamProject, BuildDefinitionName Optional: DropLocation, CommandLineArguments)</em></td>
</tr>
<tr>
<td></td>
<td><em>RelatedChangesets</em> <em>(Required: TeamFoundationServerUrl, TeamProject Optional: BuildUri, BuildDefinitionName Output: Info, RelatedItems)</em></td>
</tr>
<tr>
<td></td>
<td><em>RelatedWorkItems</em> <em>(Required: TeamFoundationServerUrl, TeamProject Optional: BuildUri, BuildDefinitionName Output: Info, RelatedItems)</em></td>
</tr>
<tr>
<td></td>
<td><strong>Remote Execution Support:</strong> NA</td>
</tr>
</tbody>
</table>
TeamBuild Class

Valid TaskActions are:

GetLatest (Required: TeamFoundationServerUrl, TeamProject Optional: BuildDefinitionName, Status Output: Info)

Queue (Required: TeamFoundationServerUrl, TeamProject, BuildDefinitionName Optional: DropLocation, CommandLine Arguments)

RelatedChangesets (Required: TeamFoundationServerUrl, TeamProject Optional: BuildUri, BuildDefinitionName Output: Info, RelatedItems)

RelatedWorkItems (Required: TeamFoundationServerUrl, TeamProject Optional: BuildUri, BuildDefinitionName Output: Info, RelatedItems)

Remote Execution Support: NA

Inheritance Hierarchy

SystemObject  Microsoft.Build.UtilitiesTask
 MSBuild.ExtensionPackBaseTask
 MSBuild.ExtensionPack.Tfs2013TeamBuild


The TeamBuild type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🔄 TeamBuild</td>
<td></td>
</tr>
</tbody>
</table>

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🛠 BuildDefinitionName</td>
<td>The name of the build definition.</td>
</tr>
<tr>
<td>🌐 BuildUri</td>
<td>Build Uri. Defaults to latest build.</td>
</tr>
<tr>
<td><strong>DropLocation</strong></td>
<td>The name of the Drop folder</td>
</tr>
<tr>
<td>------------------</td>
<td>----------------------------</td>
</tr>
<tr>
<td><strong>Info</strong></td>
<td>Gets the Build information</td>
</tr>
<tr>
<td><strong>RelatedItems</strong></td>
<td>Gets Related items associated with the build</td>
</tr>
<tr>
<td><strong>Status</strong></td>
<td>Set the Status property of the build to filter the search. Supports: Failed, InProgress, NotStarted, PartiallySucceeded, Stopped, Succeeded</td>
</tr>
<tr>
<td><strong>TeamFoundationServerUrl</strong></td>
<td>The Url of the Team Foundation Server.</td>
</tr>
<tr>
<td><strong>TeamProject</strong></td>
<td>The name of the Team Project containing the build</td>
</tr>
</tbody>
</table>

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"
   xmlns:MSBuild="http://MSBuildExtensions.xamarin.com/Tasks">
    <Import Project="$(MSBuildProjectDirectory)/../MSBuild.ExtensionPack.tasks" />
    <Import Project="%(MSBuildProjectDirectory)/../Common/MSBuild.ExtensionPack.tasks" />
    <TPath Condition="Exists('$(MSBuildProjectDirectory)/../Common/MSBuild.ExtensionPack.tasks')">
        <TPath>${MSBuildProjectDirectory}</TPath>
        <TPath Condition="Exists('$(MSBuildProjectDirectory)/../Common/MSBuild.ExtensionPack.tasks')">
            <Import Project="$(MSBuildProjectDirectory)/../MSBuild.ExtensionPack.tasks" />
        </TPath>
    </Import>
    <Import Project="$(MSBuildProjectDirectory)/../MSBuild.ExtensionPack.tasks" />
    <Import Project="$(MSBuildProjectDirectory)/../Common/MSBuild.ExtensionPack.tasks" />
    <Import Project="%(MSBuildProjectDirectory)/../Common/MSBuild.ExtensionPack.tasks" />

    <PropertyGroup>
        <TeamFoundationServerUrl>http://YOURSERVER:8080/</TeamFoundationServerUrl>
        <TeamProject>YOURPROJECT</TeamProject>
        <BuildUri>YOURDEF</BuildUri>
        <BuildDefinitionName>YOURDEF</BuildDefinitionName>
        <Target Name="Default">
            <!-- Get information on the latest build -->
            <MSBuild.ExtensionPack.Tfs2013.TeamBuild TaskParameter="DropLocation">
                <Output ItemName="BuildInfo" TaskParameter="DropLocation" />
            <Message Text="BuildDefinitionUri: %(BuildInfo.DropLocation)" />
            <Message Text="BuildFinished: %(BuildInfo.BuildFinished)" />
            <Message Text="BuildNumber: %(BuildInfo.BuildNumber)" />
            <Message Text="BuildUri: %(BuildInfo.BuildUri)" />
            <Message Text="CompilationStatus: %(BuildInfo.CompilationStatus)" />
            <Message Text="CompilationSuccess: %(BuildInfo.CompilationSuccess)" />
            <Message Text="DropLocation: %(BuildInfo.DropLocation)" />
        </Target>
    </PropertyGroup>
</Project>
```
<Message Text="FinishTime: %(BuildInfo.FinishTime)"
<Message Text="KeepForever: %(BuildInfo.KeepForever)"
<Message Text="LabelName: %(BuildInfo.LabelName)"
<Message Text="LastChangedBy: %(BuildInfo.LastChangedBy)"
<Message Text="LastChangedOn: %(BuildInfo.LastChangedOn)"
<Message Text="LogLocation: %(BuildInfo.LogLocation)"
<Message Text="Quality: %(BuildInfo.Quality)"
<Message Text="Reason: %(BuildInfo.Reason)"
<Message Text="RequestedBy: %(BuildInfo.RequestedBy)"
<Message Text="RequestedFor: %(BuildInfo.RequestedFor)"
<Message Text="StartTime: %(BuildInfo.StartTime)"
<Message Text="TestStatus: %(BuildInfo.TestStatus)"
<Message Text="TestSuccess: %(BuildInfo.TestSuccess)"
</Target>
</Project>

See Also

Reference

MSBuild.ExtensionPack.Tfs2013 Namespace

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**TeamBuild Constructor**


**See Also**

Reference

TeamBuild Class
MSBuild.ExtensionPack.Tfs2013 Namespace

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The `TeamBuild` type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BuildDefinitionName</td>
<td>The name of the build definition.</td>
</tr>
<tr>
<td>BuildUri</td>
<td>Build Uri. Defaults to latest build.</td>
</tr>
<tr>
<td>DropLocation</td>
<td>The name of the Drop folder</td>
</tr>
<tr>
<td>Info</td>
<td>Gets the Build information</td>
</tr>
<tr>
<td>RelatedItems</td>
<td>Gets Related items associated with the build</td>
</tr>
<tr>
<td>Status</td>
<td>Set the Status property of the build to filter the search. Supports: Failed, InProgress, NotStarted, PartiallySucceeded, Stopped, Succeeded</td>
</tr>
<tr>
<td>TeamFoundationServerUrl</td>
<td>The Url of the Team Foundation Server.</td>
</tr>
<tr>
<td>TeamProject</td>
<td>The name of the Team Project containing the build</td>
</tr>
</tbody>
</table>

## See Also

*Reference*

- **TeamBuild Class**
- **MSBuild.ExtensionPack.Tfs2013 Namespace**

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Send comments on this topic to MSBuild ExtensionPack Feedback
TeamBuildBuildDefinitionName Property

The name of the build definition.


See Also

Reference
TeamBuild Class
MSBuild.ExtensionPack.Tfs2013 Namespace

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**TeamBuildBuildUri Property**

Build Uri. Defaults to latest build.

**Namespace:** MSBuild.ExtensionPack.Tfs2013  

**See Also**

**Reference**  
TeamBuild Class  
MSBuild.ExtensionPack.Tfs2013 Namespace

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**TeamBuildDropLocation Property**

The name of the Drop folder

**Namespace:** MSBuild.ExtensionPack.Tfs2013  

---

**See Also**

**Reference**

- TeamBuild Class  
- MSBuild.ExtensionPack.Tfs2013 Namespace

---

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**TeamBuildInfo Property**  MSBuild Extension Pack Help 4.0.12.0

Gets the Build information

**Namespace:** MSBuild.ExtensionPack.Tfs2013


---

**See Also**

Reference

TeamBuild Class

MSBuild.ExtensionPack.Tfs2013 Namespace

---

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**TeamBuildRelatedItems Property**

Gets Related items associated with the build

**Namespace:** MSBuild.ExtensionPack.Tfs2013  

---

**See Also**

Reference  
**TeamBuild Class**  
**MSBuild.ExtensionPack.Tfs2013 Namespace**

---

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**TeamBuildStatus**

**Property**

Set the Status property of the build to filter the search. Supports: Failed, InProgress, NotStarted, PartiallySucceeded, Stopped, Succeeded

**Namespace:** MSBuild.ExtensionPack.Tfs2013  

---

**See Also**

**Reference**

TeamBuild Class  
MSBuild.ExtensionPack.Tfs2013 Namespace

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TeamBuildTeamFoundationServerUrl Property

The Url of the Team Foundation Server.


See Also

Reference

TeamBuild Class
MSBuild.ExtensionPack.Tfs2013 Namespace

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**TeamBuild.TeamProject Property**

The name of the Team Project containing the build

**Namespace:** MSBuild.ExtensionPack.Tfs2013  

**See Also**

**Reference**

TeamBuild Class  
MSBuild.ExtensionPack.Tfs2013 Namespace

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Overview

This namespace hosts the Console and Dialog tasks which can be used to show and prompt users for input

Helpful Links

User Interaction in MSBuild

Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
</table>
| **Console** | **Valid TaskActions are:**  
*Beep (Optional):* Title, Repeat, Duration, Frequency, Interval  
*ReadLine (Optional):* Title, UserPrompt, ToLower, ToUpper **Output:** UserResponse  
**Remote Execution Support:** No |
| **Dialog** | **Valid TaskActions are:**  
*Confirm (Required):* Text **Optional:** Title, Height, Width, ConfirmText, ErrorText, ErrorTitle, Button1Text, Button2Text, MaskText **Output:** ButtonClickedText, UserText  
*Show (Required):* Text **Optional:** Title, Height, Width, Button1Text, Button2Text, Button3Text, MessageColour, MessageBold **Output:** ButtonClickedText  
*Prompt (Required):* Text **Optional:** Title, Height, Width, Button1Text, Button2Text, Button3Text, MessageColour, MessageBold, MaskText **Output:** ButtonClickedText, UserText  
**Remote Execution Support:** NA |
**Console Class**

**Valid TaskActions are:**

*Beep* (Optional: Title, Repeat, Duration, Frequency, Interval)

*ReadStream* (Optional: Title, UserPrompt, ToLower, ToUpper Output: UserResponse)

Remote Execution Support: No

**Inheritance Hierarchy**

SystemObject  Microsoft.Build.UtilitiesTask  
MSBuild.ExtensionPackBaseTask  
MSBuild.ExtensionPack.UIConsole

Namespace: MSBuild.ExtensionPack.UI  
Version: 4.0.0.0

The **Console** type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>📛</td>
<td>Console</td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>📛</td>
<td>Duration: Sets the duration. Default is 333ms. Value must be between 1 and 10000</td>
</tr>
<tr>
<td>📛</td>
<td>Frequency: Sets the frequency. Default is 600hz. Value must be between 37 and 32767</td>
</tr>
<tr>
<td>📛</td>
<td>Interval: Sets the interval between beeps. Default is 10ms. Value must be between 10 and 5000</td>
</tr>
<tr>
<td>📛</td>
<td>Repeat: Sets the repeat. Default is 1. Value must be between 1 and 20</td>
</tr>
<tr>
<td>📛</td>
<td>Title: Set the title of the console</td>
</tr>
<tr>
<td>📛</td>
<td>ToLower: Sets the UserResponse to lower text</td>
</tr>
</tbody>
</table>
**ToUpper**
Sets the UserResponse to upper text

**UserPrompt**
The message to prompt the user for input. Default is "Please enter a response and press [Enter]:"

**UserResponse**
Gets the response that the user typed

### Top

### Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks')"></TPath>
  </PropertyGroup>
  <Import Project="$\{TPath\}" />
  <Target Name="Default">
    <!-- Read input from the user -->
    <MSBuild.ExtensionPack.UI.Console TaskAction=
      <Output TaskParameter="UserResponse" Pro
      <MSBuild.ExtensionPack.UI.Console>
      <Message Text="User Typed: $(Line)"/>
    <!-- Read input from the user and uppercase
    <MSBuild.ExtensionPack.UI.Console TaskAction=
      <Output TaskParameter="UserResponse" Pro
      <MSBuild.ExtensionPack.UI.Console>
      <Message Text="User Typed: $(Line)"/>
    <!-- Play some beeps -->
    <MSBuild.ExtensionPack.UI.Console TaskAction=
      <MSBuild.ExtensionPack.UI.Console TaskAction=
      <MSBuild.ExtensionPack.UI.Console TaskAction=
    </Target>
</Project>
```

### See Also

**Reference**
MSBuild.ExtensionPack.UI Namespace
**Console Constructor**

**Namespace:** MSBuild.ExtensionPack.UI  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

### See Also

- **Reference**  
  - Console Class  
  - MSBuild.ExtensionPack.UI Namespace

---

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The **Console** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duration</td>
<td>Sets the duration. Default is 333ms. Value must be between 1 and 10000</td>
</tr>
<tr>
<td>Frequency</td>
<td>Sets the frequency. Default is 600hz. Value must be between 37 and 32767</td>
</tr>
<tr>
<td>Interval</td>
<td>Sets the interval between beeps. Default is 10ms. Value must be between 10 and 5000</td>
</tr>
<tr>
<td>Repeat</td>
<td>Sets the repeat. Default is 1. Value must be between 1 and 20</td>
</tr>
<tr>
<td>Title</td>
<td>Set the title of the console</td>
</tr>
<tr>
<td>ToLower</td>
<td>Sets the UserResponse to lower text</td>
</tr>
<tr>
<td>ToUpper</td>
<td>Sets the UserResponse to uppper text</td>
</tr>
<tr>
<td>UserPrompt</td>
<td>The message to prompt the user for input. Default is &quot;Please enter a response and press [Enter]:&quot;</td>
</tr>
<tr>
<td>UserResponse</td>
<td>Gets the response that the user typed</td>
</tr>
</tbody>
</table>

## See Also

**Reference**

**Console Class**

**MSBuild.ExtensionPack.UI Namespace**

---

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Send comments on this topic to **MSBuild ExtensionPack Feedback**
**ConsoleDuration Property**

Sets the duration. Default is 333ms. Value must be between 1 and 10000

**Namespace:** MSBuild.ExtensionPack.UI  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**

Console Class  
MSBuild.ExtensionPack.UI Namespace

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## ConsoleFrequency Property

Sets the frequency. Default is 600hz. Value must be between 37 and 32767

**Namespace:** MSBuild.ExtensionPack.UI  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

### See Also

**Reference**

- Console Class
- MSBuild.ExtensionPack.UI Namespace

---

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**ConsoleInterval Property**  MSBuild Extension Pack Help 4.0.12.0

Sets the interval between beebs. Default is 10ms. Value must be between 10 and 5000

**Namespace:** MSBuild.ExtensionPack.UI  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

Console Class  
MSBuild.ExtensionPack.UI Namespace

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**ConsoleRepeat Property**  MSBuild Extension Pack Help 4.0.12.0

Sets the repeat. Default is 1. Value must be between 1 and 20

**Namespace:** MSBuild.ExtensionPack.UI  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

Console Class  
MSBuild.ExtensionPack.UI Namespace

---

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**ConsoleTitle Property**

Set the title of the console

**Namespace:** MSBuild.ExtensionPack.UI  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

- **Console Class**
- **MSBuild.ExtensionPack.UI Namespace**

---

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**ConsoleToLower Property**

Sets the UserResponse to lower text

**Namespace:** MSBuild.ExtensionPack.UI  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference  
**Console Class**  
**MSBuild.ExtensionPack.UI Namespace**

---

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ConsoleToUpper Property

Sets the UserResponse to uppercase text

Namespace: MSBuild.ExtensionPack.UI
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Console Class
MSBuild.ExtensionPack.UI Namespace

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**ConsoleUserPrompt**

The message to prompt the user for input. Default is "Please enter a response and press [Enter]:"

**Namespace:** MSBuild.ExtensionPack.UI  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

Console Class  
MSBuild.ExtensionPack.UI Namespace

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**ConsoleUserResponse Property**

Gets the response that the user typed

**Namespace:** MSBuild.ExtensionPack.UI  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

## See Also

**Reference**

- **Console Class**  
- **MSBuild.ExtensionPack.UI Namespace**

---

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Dialog Class

Valid TaskActions are:

Confirm (Required: Text Optional: Title, Height, Width, ConfirmText, ErrorText, ErrorTitle, Button1Text, Button2Text, MaskText Output: ButtonClickedText, UserText)

Show (Required: Text Optional: Title, Height, Width, Button1Text, Button2Text, Button3Text, MessageColour, MessageBold Output: ButtonClickedText)

Prompt (Required: Text Optional: Title, Height, Width, Button1Text, Button2Text, Button3Text, MessageColour, MessageBold, MaskText Output: ButtonClickedText, UserText)

Remote Execution Support: NA

Inheritance Hierarchy


Namespace: MSBuild.ExtensionPack.UI
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The Dialog type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dialog</td>
<td></td>
</tr>
</tbody>
</table>

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Button1Text</td>
<td>Sets the text for Button1. Default is 'Ok'</td>
</tr>
<tr>
<td>Button2Text</td>
<td>Sets the text for Button2. If no text is set the button will not be displayed</td>
</tr>
<tr>
<td>Property</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Button3Text</td>
<td>Set the text for Button3. If no text is set the button will not be displayed</td>
</tr>
<tr>
<td>ButtonClickedText</td>
<td>Gets the text of the button that the user clicked</td>
</tr>
<tr>
<td>ConfirmText</td>
<td>Sets the confirmation text for the message that is displayed. Default is 'Confirm'</td>
</tr>
<tr>
<td>ErrorText</td>
<td>Sets the text for the error messagebox if Confirm fails. Default is 'The supplied values do not match'</td>
</tr>
<tr>
<td>ErrorTitle</td>
<td>Sets the title for the error messagebox if Confirm fails. Default is 'Error'</td>
</tr>
<tr>
<td>Height</td>
<td>Sets the height of the form. Default is 180</td>
</tr>
<tr>
<td>MaskText</td>
<td>Set to true to use the default password character to mask the user input</td>
</tr>
<tr>
<td>MessageBold</td>
<td>Sets whether the message text is bold. Default is false.</td>
</tr>
<tr>
<td>MessageColour</td>
<td>Sets the message text colour. Default is ControlText (usually black).</td>
</tr>
<tr>
<td>Text</td>
<td>Sets the text for the message that is displayed</td>
</tr>
<tr>
<td>Title</td>
<td>Sets the Title of the Dialog. Default is 'Message' for Show and Prompt, 'Confirm' for Confirm TaskAction</td>
</tr>
<tr>
<td>UserText</td>
<td>Gets the text that the user typed into the Prompt</td>
</tr>
<tr>
<td>Width</td>
<td>Sets the width of the form. Default is 400</td>
</tr>
</tbody>
</table>

### Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\..\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\..\Common\MSBuild.ExtensionPack.tasks')"></TPath>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- Confirm a Password -->
    <MSBuild.ExtensionPack.UI.Dialog TaskAction="Confirm">
      <Output TaskParameter="ButtonClickedText">
      <Output TaskParameter="UserText" Property="User Text"/>
    </MSBuild.ExtensionPack.UI.Dialog>
    <Message Text="User Clicked: $(Clicked)"/>
  </Target>
</Project>
```
<Message Text="User Typed: $(Typed)"/>

<!-- A simple message -->
<MSBuild.ExtensionPack.UI.Dialog TaskAction="Show"
  <Output TaskParameter="ButtonClickedText"
</MSBuild.ExtensionPack.UI.Dialog>
<Message Text="User Clicked: $(Clicked)"/>

<!-- A longer message with a few more attributes set -->
<MSBuild.ExtensionPack.UI.Dialog TaskAction="Show"
  <Output TaskParameter="ButtonClickedText"
</MSBuild.ExtensionPack.UI.Dialog>
<Message Text="User Clicked: $(Clicked)"/>

<!-- A simple prompt for input -->
<MSBuild.ExtensionPack.UI.Dialog TaskAction="Prompt"
  <Output TaskParameter="ButtonClickedText"
  <Output TaskParameter="UserText" Propert
</MSBuild.ExtensionPack.UI.Dialog>
<Message Text="User Clicked: $(Clicked)"/>
<Message Text="User Typed: $(Typed)"/>

<!-- A prompt for password input -->
<MSBuild.ExtensionPack.UI.Dialog TaskAction="Prompt"
  <Output TaskParameter="ButtonClickedText"
  <Output TaskParameter="UserText" Propert
</MSBuild.ExtensionPack.UI.Dialog>
<Message Text="User Clicked: $(Clicked)"/>
<Message Text="User Typed: $(Typed)"/>

</Target >
</Project>

See Also

Reference

MSBuild.ExtensionPack.UI Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**Dialog Constructor**

Namespace: MSBuild.ExtensionPack.UI  
Version: 4.0.0.0

---

**See Also**

Reference  
Dialog Class  
MSBuild.ExtensionPack.UI Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
Dialog Properties

The **Dialog** type exposes the following members.

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Button1Text</td>
<td>Sets the text for Button1. Default is 'Ok'</td>
</tr>
<tr>
<td>Button2Text</td>
<td>Sets the text for Button2. If no text is set the button will not be displayed</td>
</tr>
<tr>
<td>Button3Text</td>
<td>Set the text for Button3. If no text is set the button will not be displayed</td>
</tr>
<tr>
<td>ButtonClickedText</td>
<td>Gets the text of the button that the user clicked</td>
</tr>
<tr>
<td>ConfirmText</td>
<td>Sets the confirmation text for the message that is displayed. Default is 'Confirm'</td>
</tr>
<tr>
<td>ErrorText</td>
<td>Sets the text for the error messagebox if Confirm fails. Default is 'The supplied values do not match'</td>
</tr>
<tr>
<td>ErrorTitle</td>
<td>Sets the title for the error messagebox if Confirm fails. Default is 'Error'</td>
</tr>
<tr>
<td>Height</td>
<td>Sets the height of the form. Default is 180</td>
</tr>
<tr>
<td>MaskText</td>
<td>Set to true to use the default password character to mask the user input</td>
</tr>
<tr>
<td>MessageBold</td>
<td>Sets whether the message text is bold. Default is false.</td>
</tr>
<tr>
<td>MessageColour</td>
<td>Sets the message text colour. Default is ControlText (usually black).</td>
</tr>
<tr>
<td>Text</td>
<td>Sets the text for the message that is displayed</td>
</tr>
<tr>
<td>Title</td>
<td>Sets the Title of the Dialog. Default is 'Message' for Show and Prompt, 'Confirm' for Confirm TaskAction</td>
</tr>
<tr>
<td>UserText</td>
<td>Gets the text that the user typed into the Prompt</td>
</tr>
<tr>
<td>Width</td>
<td>Sets the width of the form. Default is 400</td>
</tr>
</tbody>
</table>

### See Also

**Reference**

**Dialog Class**

**MSBuild.ExtensionPack.UI Namespace**
**DialogButton1Text**

Sets the text for Button1. Default is 'Ok'

**Namespace:** MSBuild.ExtensionPack.UI  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

**Dialog Class**  
**MSBuild.ExtensionPack.UI Namespace**

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**DialogButton2Text Property**

Sets the text for Button2. If no text is set the button will not be displayed

**Namespace:** MSBuild.ExtensionPack.UI  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

- Dialog Class
- MSBuild.ExtensionPack.UI Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
DialogButton3Text Property

Set the text for Button3. If no text is set the button will not be displayed

Namespace: MSBuild.ExtensionPack.UI
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Dialog Class
MSBuild.ExtensionPack.UI Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**DialogButtonClickedText Property**

Gets the text of the button that the user clicked

**Namespace:** MSBuild.ExtensionPack.UI  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

- Dialog Class
- MSBuild.ExtensionPack.UI Namespace

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**DialogConfirmText** Property

Sets the confirmation text for the message that is displayed. Default is 'Confirm'

**Namespace:** MSBuild.ExtensionPack.UI  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

- **Dialog Class**
- **MSBuild.ExtensionPack.UI Namespace**

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**DialogErrorText Property**

Sets the text for the error messagebox if Confirm fails. Default is 'The supplied values do not match'

**Namespace:** MSBuild.ExtensionPack.UI  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**

Dialog Class  
MSBuild.ExtensionPack.UI Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
DialogExceptionTitle Property

Sets the title for the error messagebox if Confirm fails. Default is 'Error'

**Namespace:** MSBuild.ExtensionPack.UI  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also
Reference
Dialog Class  
MSBuild.ExtensionPack.UI Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**DialogHeight Property**

Sets the height of the form. Default is 180

**Namespace:** MSBuild.ExtensionPack.UI

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

Reference

**Dialog Class**

MSBuild.ExtensionPack.UI Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
DialogMaskText Property

Set to true to use the default password character to mask the user input

**Namespace:** MSBuild.ExtensionPack.UI  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

Dialog Class  
MSBuild.ExtensionPack.UI Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**DialogMessageBold Property**

Sets whether the message text is bold. Default is false.

**Namespace:** MSBuild.ExtensionPack.UI  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

**See Also**

Reference  
**Dialog Class**  
**MSBuild.ExtensionPack.UI Namespace**

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
DialogMessageColour Property

Sets the message text colour. Default is ControlText (usually black).

**Namespace:** MSBuild.ExtensionPack.UI  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also

Reference
- Dialog Class
- MSBuild.ExtensionPack.UI Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**DialogText Property**

Sets the text for the message that is displayed

**Namespace:** MSBuild.ExtensionPack.UI

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  Version: 4.0.0.0

---

**See Also**

Reference

Dialog Class

MSBuild.ExtensionPack.UI Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**DialogTitle Property**

Sets the Title of the Dialog. Default is 'Message' for Show and Prompt, 'Confirm' for Confirm TaskAction

**Namespace:** MSBuild.ExtensionPack.UI  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

**See Also**

Reference  
Dialog Class  
MSBuild.ExtensionPack.UI Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
DialogUserText Property  MSBuild Extension Pack Help 4.0.12.0

Gets the text that the user typed into the Prompt

Namespace: MSBuild.ExtensionPack.UI
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Dialog Class
MSBuild.ExtensionPack.UI Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**DialogWidth Property**

Sets the width of the form. Default is 400

*Namespace: MSBuild.ExtensionPack.UI*

*Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0*

---

**See Also**

Reference

*Dialog Class*

*MSBuild.ExtensionPack.UI Namespace*

---

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Overview

This namespace hosts various tasks that interact with Visual Studio products.

Helpful Links

SourceSafe Command Line Reference

Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="ss_icon.png" alt="SourceSafe" /> SourceSafe</td>
<td>Please be aware that this is a very light wrapper for ss.exe. See the Command Line Reference on MSDN (<a href="http://msdn.microsoft.com/en-us/library/003ssz4z(VS.80).aspx">http://msdn.microsoft.com/en-us/library/003ssz4z(VS.80).aspx</a>) for full details.</td>
</tr>
</tbody>
</table>

Sample TaskActions are as follows, HOWEVER use the URL above for full guidance and additional TaskActions:

- **Checkout** (Required: FilePath) Optional: Arguments, Database, SSVersion, SuppressI)
- **Checkin** (Required: FilePath) Optional: Arguments, Database, SSVersion, SuppressI)
- **Cloak** (Required: FilePath) Optional: Arguments, Database, SSVersion, SuppressI)
- **Create** (Required: FilePath) Optional: Arguments, Database, SSVersion, SuppressI)
- **Decloak** (Required: FilePath) Optional: Arguments, Database, SSVersion, SuppressI)
- **Delete** (Required: FilePath) Optional: Arguments, Database, SSVersion, SuppressI)
- **Destroy** (Required: FilePath) Optional: Arguments, Database, SSVersion, SuppressI)
- **Get** (Required: FilePath) Optional: Arguments, Database, SSVersion, SuppressI)
### Remote Execution Support

**Valid TaskActions are:**

- **Add** *(Required: ItemPath or ItemCol Optional: Login, Server, Version, WorkingDirectory, Recursive Output: ExitCode)*

- **AddLabel** *(Required: LabelName, ItemPath or ItemCol Optional: Login, Server, LabelScope, Recursive, VersionSpec, Comments Output: ExitCode)*

- **Checkin** *(Required: ItemPath or ItemCol Optional: Login, Server, Comments, Notes, Version, WorkingDirectory, Recursive, Bypass Output: ExitCode)*

- **Checkout** *(Required: ItemPath or ItemCol Optional: Login, Server, Version, WorkingDirectory, Recursive Output: ExitCode)*

- **Delete** *(Required: ItemPath or ItemCol Optional: Login, Server, Version, WorkingDirectory, Recursive Output: ExitCode)*

- **DeleteLabel** *(Required: LabelName Optional: Login, Server, LabelScope Output: ExitCode)*

- **Get** *(Required: ItemPath or ItemCol Optional: Login, Server, Version, WorkingDirectory, Recursive, Force, Overwrite, All Output: ExitCode)*


- **Resolve** *(Required: ItemPath or ItemCol Optional: Login, Server, Recursive, Version Output: ExitCode)*

- **GetPendingChanges** *(Required: ItemPath Optional: Login, Server, Recursive, Version Output: PendingChanges, PendingChangesExist Optional: ExitCode, PendingChangesExistItem)*

- **UndoCheckout** *(Required: ItemPath or ItemCol Optional: Login, Server, Version, WorkingDirectory, Recursive Output: ExitCode)*

- **Undelete** *(Required: ItemPath or ItemCol Optional: Login, Server, Version, WorkingDirectory, Recursive Output: ExitCode)*

**Remote Execution Support:** NA

---

### TfsSourceAdmin

**Valid TaskActions are:**
**Enumerations**

<table>
<thead>
<tr>
<th>Enumeration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AutoArg</td>
<td>AutoArg enumeration</td>
</tr>
</tbody>
</table>
reserved.
Send comments on this topic to MSBuild ExtensionPack Feedback
AutoArg Enumeration

AutoArg enumeration


Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

Members

<table>
<thead>
<tr>
<th>Member name</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AcceptMerge</td>
<td>0</td>
<td>AcceptMerge</td>
</tr>
<tr>
<td>AcceptTheirs</td>
<td>1</td>
<td>AcceptTheirs</td>
</tr>
<tr>
<td>AcceptYours</td>
<td>2</td>
<td>AcceptYours</td>
</tr>
<tr>
<td>OverwriteLocal</td>
<td>3</td>
<td>OverwriteLocal</td>
</tr>
<tr>
<td>DeleteConflict</td>
<td>4</td>
<td>DeleteConflict</td>
</tr>
<tr>
<td>AcceptYoursRenameTheirs</td>
<td>5</td>
<td>AcceptYoursRenameTheirs</td>
</tr>
</tbody>
</table>

See Also

Reference


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Send comments on this topic to MSBuild ExtensionPack Feedback
SourceSafe Class

MSBuild Extension Pack Help 4.0.12.0

Please be aware that this is a very light wrapper for ss.exe


Sample TaskActions are as follows, HOWEVER use the URL above for full guidance and additional TaskActions:

Checkout (Required: FilePath Optional: Arguments, Database, SSVersion, Suppress)

Checkin (Required: FilePath Optional: Arguments, Database, SSVersion, Suppress)

Cloak (Required: FilePath Optional: Arguments, Database, SSVersion, Suppress)

Create (Required: FilePath Optional: Arguments, Database, SSVersion, Suppress)

Decloak (Required: FilePath Optional: Arguments, Database, SSVersion, Suppress)

Delete (Required: FilePath Optional: Arguments, Database, SSVersion, Suppress)

Destroy (Required: FilePath Optional: Arguments, SSVersion, Suppress)

Get (Required: FilePath Optional: Arguments, Database, SSVersion, Suppress)

Remote Execution Support: No

Inheritance Hierarchy

SystemObject  Microsoft.Build.UtilitiesTask
  MSBuild.ExtensionPackBaseTask

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0
The **SourceSafe** type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![ ]</td>
<td>SourceSafe</td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![ ]</td>
<td><strong>Arguments</strong> Sets the Arguments. Defaults to -I- (Ignores all and tells the command not to ask for input under any circumstances) unless SuppressI is set to true. See <a href="http://msdn.microsoft.com/en-us/library/hsxzf2az(VS.80).aspx">http://msdn.microsoft.com/en-us/library/hsxzf2az(VS.80).aspx</a> for full options.</td>
</tr>
<tr>
<td>![ ]</td>
<td><strong>Database</strong> Sets the database.</td>
</tr>
<tr>
<td>![ ]</td>
<td><strong>FilePath</strong> Sets the FilePath</td>
</tr>
<tr>
<td>![ ]</td>
<td><strong>SSVersion</strong> Sets the SourceSafe version. Supports 2005 and 6d. Default is 2005</td>
</tr>
<tr>
<td>![ ]</td>
<td><strong>SuppressI</strong> Set to true to prevent -I- being added to your custom Arguments. Default is False</td>
</tr>
</tbody>
</table>

### Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\MSBuild</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\.Common\MSBuild.ExtensionPack.tasks')"> ($(MSBuildProjectDirectory)\.\.Common\MSBuild.ExtensionPack.tasks')</TPath>
  </PropertyGroup>
  <Import Project="$TPath"/>
  <Target Name="Default">
    <!-- Perform various source control operations -->
  </Target>
</Project>
```

[Copy]
See Also

Reference

MSBuild.ExtensionPack.VisualBasic Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**SourceSafe Constructor**

**Namespace:** MSBuild.ExtensionPack.VisualStudio

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

SourceSafe Class


---

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Send comments on this topic to MSBuild ExtensionPack Feedback
The **SourceSafe** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arguments</td>
<td>Sets the Arguments. Defaults to -I- (Ignores all and tells the command not to ask for input under any circumstances) unless SuppressI is set to true. See <a href="http://msdn.microsoft.com/en-us/library/hsxzf2az(VS.80).aspx">http://msdn.microsoft.com/en-us/library/hsxzf2az(VS.80).aspx</a> for full options.</td>
</tr>
<tr>
<td>Database</td>
<td>Sets the database.</td>
</tr>
<tr>
<td>FilePath</td>
<td>Sets the FilePath</td>
</tr>
<tr>
<td>SSVersion</td>
<td>Sets the SourceSafe version. Supports 2005 and 6d. Default is 2005</td>
</tr>
<tr>
<td>SuppressI</td>
<td>Set to true to prevent -I- being added to your custom Arguments. Default is False</td>
</tr>
</tbody>
</table>

## See Also

- **SourceSafe Class**
- **MSBuild.ExtensionPack.VisualStudio Namespace**

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Send comments on this topic to [MSBuild ExtensionPack Feedback](mailto:feedback@MSBuildExtensionPack.com)
SourceSafeArguments Property

Sets the Arguments. Defaults to -I- (Igles all and tells the command not to ask for input under any circumstances) unless SuppressI is set to true. See http://msdn.microsoft.com/en-us/library/hsxzf2az(VS.80).aspx for full options.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
SourceSafe Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**SourceSafeDatabase Property**

Sets the database.

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**

*SourceSafe Class*  
*MSBuild.ExtensionPack.VisualStudio Namespace*

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Send comments on this topic to MSBuild ExtensionPack Feedback
SourceSafeFilePath Property

Sets the FilePath

**Namespace:** MSBuild.ExtensionPack.VisualStudio

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

SourceSafe Class


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Send comments on this topic to MSBuild ExtensionPack Feedback
**SourceSafeSSVersion Property**

Sets the SourceSafe version. Supports 2005 and 6d. Default is 2005

**Namespace:** MSBuild.ExtensionPack.VisualStudio

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

Reference

SourceSafe Class


---

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Send comments on this topic to MSBuild ExtensionPack Feedback
SourceSafeSuppressI Property

Set to true to prevent -I- being added to your custom Arguments. Default is False

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
SourceSafe Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
TfsSource Class

Valid TaskActions are:

Add (Required: ItemPath or ItemCol Optional: Login, Server, Version, WorkingDirectory, Recursive Output: ExitCode)

AddLabel (Required: LabelName, ItemPath or ItemCol Optional: Login, Server, LabelScope, Recursive, VersionSpec, Comments Output: ExitCode)

Checkin (Required: ItemPath or ItemCol Optional: Login, Server, Comments, Notes, Version, WorkingDirectory, Recursive, Bypass Output: ExitCode)

Checkout (Required: ItemPath or ItemCol Optional: Login, Server, Version, WorkingDirectory, Recursive Output: ExitCode)

Delete (Required: ItemPath or ItemCol Optional: Login, Server, Version, WorkingDirectory, Recursive Output: ExitCode)

DeleteLabel (Required: LabelName Optional: Login, Server, LabelScope Output: ExitCode)

Get (Required: ItemPath or ItemCol Optional: Login, Server, Version, WorkingDirectory, Recursive, Force, Overwrite, All Output: ExitCode)


Resolve (Required: ItemPath or ItemCol Optional: Login, Server, Recursive, Version, Auto, NewName)

GetPendingChanges (Required: ItemPath Optional: Login, Server, Recursive, Version Output: PendingChanges, PendingChangesExist Output: ExitCode, PendingChangesExistItem)

UndoCheckout (Required: ItemPath or ItemCol Optional: Login, Server, Version, WorkingDirectory, Recursive Output: ExitCode)
Undelete (Required: ItemPath or ItemCol Optional: Login, Server, Version, WorkingDirectory, Recursive Output: ExitCode)

Remote Execution Support: NA

Inheritance Hierarchy

SystemObject  Microsoft.Build.UtilitiesTask
               MSBuild.ExtensionPackBaseTask

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The TfsSource type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="merge.png" alt="Merge" /></td>
<td>TfsSource</td>
</tr>
</tbody>
</table>

Top

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="merge.png" alt="Merge" /></td>
<td>All For a Merge</td>
</tr>
<tr>
<td><img src="merge.png" alt="Merge" /></td>
<td>Auto Resolve outstanding conflicts between different versions of specified items in the current workspace AcceptMerge, AcceptTheirs, AcceptYours, OverwriteLocal, DeleteConflict, AcceptYoursRenameTheirs</td>
</tr>
<tr>
<td><img src="merge.png" alt="Merge" /></td>
<td>Baseless Set to true to perform a merge without a basis version</td>
</tr>
<tr>
<td><img src="merge.png" alt="Merge" /></td>
<td>Bypass Bypasses a gated check-in requirement. Default is false.</td>
</tr>
<tr>
<td><img src="merge.png" alt="Merge" /></td>
<td>Changeset Gets the Changeset details</td>
</tr>
<tr>
<td><img src="merge.png" alt="Merge" /></td>
<td>Comments Sets the comments.</td>
</tr>
<tr>
<td><img src="merge.png" alt="Merge" /></td>
<td>Destination Sets the Destination for a Merge</td>
</tr>
<tr>
<td><img src="merge.png" alt="Merge" /></td>
<td>ExitCode Gets the ExitCode</td>
</tr>
<tr>
<td><img src="merge.png" alt="Merge" /></td>
<td>Force Implies All and Overwrite.</td>
</tr>
<tr>
<td>ItemCol</td>
<td>Sets the Item Collection of files to use.</td>
</tr>
<tr>
<td>-----------------</td>
<td>------------------------------------------</td>
</tr>
<tr>
<td>ItemPath</td>
<td>Sets the files or folders to use.</td>
</tr>
<tr>
<td>LabelName</td>
<td>Sets the Label Name.</td>
</tr>
<tr>
<td>LabelScope</td>
<td>Sets the Label Scope.</td>
</tr>
<tr>
<td>Login</td>
<td>Sets the Login. TFS2010 and greater only.</td>
</tr>
<tr>
<td>NewName</td>
<td>Used to resolve a name collision conflict. Can only be used in conjunction with AcceptMerge and AcceptYoursRenameTheirs. With AcceptMerge, /newname is only valid with conflicts that involve rename and/or undelete. If used, you must supply a new path.</td>
</tr>
<tr>
<td>Notes</td>
<td>Sets the notes.</td>
</tr>
<tr>
<td>OverrideText</td>
<td>Lets you set text to override check-in policies</td>
</tr>
<tr>
<td>Overwrite</td>
<td>Overwrites writable files that are not checked out.</td>
</tr>
<tr>
<td>PendingChanges</td>
<td>Gets the pending changes in the format '/Format:detailed'</td>
</tr>
<tr>
<td>PendingChangesExist</td>
<td>Gets whether pending changes exist for a given ItemPath</td>
</tr>
<tr>
<td>PendingChangesExistItem</td>
<td>Task Item stores whether changes exist for the given ItemPath. Identity stores the path, PendingChangesExistItem metadata stores boolean.</td>
</tr>
<tr>
<td>Recursive</td>
<td>Sets whether the Tfs operation should be recursive. Default is true.</td>
</tr>
<tr>
<td>Server</td>
<td>Sets the TFS Server</td>
</tr>
<tr>
<td>Version</td>
<td>Sets the version of Tfs. Default is 2013</td>
</tr>
<tr>
<td>VersionSpec</td>
<td>Sets the version spec for Get or changeset number for GetChangeset. If no VersionSpec is provided for GetChangeset, then /latest is used.</td>
</tr>
<tr>
<td>WorkingDirectory</td>
<td>Sets the working directory. If the directory is mapped in a workspace, then there is no need to specify the Server.</td>
</tr>
</tbody>
</table>

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild</TPath>
  </PropertyGroup>
```

*Copy*
<TPath Condition="Exists($(MSBuildProjectDirectory)\..\..\Common\MSBuild.ExtensionPack.tasks)"/>
</PropertyGroup>
<Import Project="$(TPath)="/>
<ItemGroup>
  <FilesToAdd Include="C:\Projects\SpeedCMMI\D"></FilesToAdd>
</ItemGroup>
<Target Name="Default">
  <!-- Check for pending changes -->
    <Output TaskParameter="PendingChanges" PropertyGroup/>
    <Output TaskParameter="PendingChangesExist" PropertyGroup/>
  <Message Text="Pending Changes Report: $(PendingChangesText)" />
  <Message Text="Pending Changes Exist: $(DoChangesExist)" />
    <Output TaskParameter="PendingChangesExistItem" PropertyGroup/>
    <Message Text="%(PendingChangesExistItem.Identity) = %(PendingChangesExistItem.PendingChangesExist)" />
  <!-- Perform various other source control operations -->
</Target>
</Project>

See Also
Reference
TfsSource Constructor  MSBuild Extension Pack Help 4.0.12.0

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
TfsSource Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
### TfsSource Properties

The **TfsSource** type exposes the following members.

#### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>Forces all files to be retrieved, not just those that are out-of-date.</td>
</tr>
<tr>
<td>Auto</td>
<td>Resolves outstanding conflicts between different versions of specified items in the current workspace AcceptMerge, AcceptTheirs, AcceptYours, OverwriteLocal, DeleteConflict, AcceptYoursRenameTheirs</td>
</tr>
<tr>
<td>Baseless</td>
<td>Set to true to perform a merge without a basis version</td>
</tr>
<tr>
<td>Bypass</td>
<td>Bypasses a gated check-in requirement. Default is false.</td>
</tr>
<tr>
<td>Changeset</td>
<td>Gets the Changeset details</td>
</tr>
<tr>
<td>Comments</td>
<td>Sets the comments.</td>
</tr>
<tr>
<td>Destination</td>
<td>Sets the Destination for a Merge</td>
</tr>
<tr>
<td>ExitCode</td>
<td>Gets the ExitCode</td>
</tr>
<tr>
<td>Force</td>
<td>Implies All and Overwrite.</td>
</tr>
<tr>
<td>ItemCol</td>
<td>Sets the Item Collection of files to use.</td>
</tr>
<tr>
<td>ItemPath</td>
<td>Sets the files or folders to use.</td>
</tr>
<tr>
<td>LabelName</td>
<td>Sets the Label Name.</td>
</tr>
<tr>
<td>LabelScope</td>
<td>Sets the Label Scope</td>
</tr>
<tr>
<td>Login</td>
<td>Sets the Login. TFS2010 and greater only.</td>
</tr>
<tr>
<td>NewName</td>
<td>Used to resolve a name collision conflict. Can only be used in conjunction with AcceptMerge and AcceptYoursRenameTheirs. With AcceptMerge, /newname is only valid with conflicts that involve rename and/or undelete. If used, you must supply a new path.</td>
</tr>
<tr>
<td>Notes</td>
<td>Sets the notes.</td>
</tr>
<tr>
<td>OverrideText</td>
<td>Lets you set text to override check-in policies</td>
</tr>
<tr>
<td>Overwrite</td>
<td>Overwrites writable files that are not checked out.</td>
</tr>
</tbody>
</table>
## See Also

**Reference**

*TfsSource Class*

*MSBuild.ExtensionPack.VisualStudio Namespace*
**TfsSourceAll Property**

Forces all files to be retrieved, not just those that are out-of-date.

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

TfsSource Class  

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsSourceAuto Property**  MSBuild Extension Pack Help 4.0.12.0

Resolves outstanding conflicts between different versions of specified items in the current workspace AcceptMerge, AcceptTheirs, AcceptYours, OverwriteLocal, DeleteConflict, AcceptYoursRenameTheirs

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

TfsSource Class  

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsSourceBaseless Property**

Set to true to perform a merge without a basis version

**Namespace:** MSBuild.ExtensionPack.VisualStudio

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

---

**See Also**

**Reference**

TfsSource Class


---

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Send comments on this topic to MSBuild ExtensionPack Feedback
TfsSourceBypass Property

Bypasses a gated check-in requirement. Default is false.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
TfsSource Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsSourceChangeset Property**

Gets the Changeset details

**Namespace:** MSBuild.ExtensionPack.VisualStudio

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

- [TfsSource Class](#)

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
TfsSourceComments Property

Sets the comments.

 Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
TfsSource Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsSourceDestination Property**

Sets the Destination for a Merge

**Namespace:** MSBuild.ExtensionPack.VisualStudio

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

**Reference**

TfsSource Class  
TfsSourceExitCode Property

Gets the ExitCode

**Namespace:** Microsoft.Build.ExtensionPack.VisualStudio

**Assembly:** Microsoft.Build.ExtensionPack (in Microsoft.Build.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

Reference

TfsSource Class


---

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Send comments on this topic to Microsoft Build ExtensionPack Feedback
**TfsSourceForce Property**  MSBuild Extension Pack Help 4.0.12.0

Implies All and Overwrite.

**Namespace:**  MSBuild.ExtensionPack.VisualStudio  
**Assembly:**  MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  **Version:**  4.0.0.0

### See Also

Reference

- TfsSource Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsSourceItemCol**

Property

Sets the Item Collection of files to use.

**Namespace:** MSBuild.ExtensionPack.VisualStudio

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

Reference

TfsSource Class


---

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Send comments on this topic to MSBuild ExtensionPack Feedback
TfsSourceItemPath Property

Sets the files or folders to use.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
TfsSource Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
TfsSourceLabelName

Sets the Label Name.

**Namespace:** MSBuild.ExtensionPack.VisualStudio

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

---

**See Also**

**Reference**

TfsSource Class


---

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Send comments on this topic to MSBuild ExtensionPack Feedback
TfsSourceLabelScope Property

Sets the Label Scope

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
TfsSource Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsSourceLogin Property** MSBuild Extension Pack Help 4.0.12.0

Sets the Login. TFS2010 and greater only.

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

TfsSource Class  

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsSourceNewName Property**

Used to resolve a name collision conflict. Can only be used in conjunction with AcceptMerge and AcceptYoursRenameTheirs. With AcceptMerge, /newname is only valid with conflicts that involve rename and/or undelete. If used, you must supply a new path.

**Namespace:** MSBuild.ExtensionPack.VisualStudio

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

**Reference**

TfsSource Class


---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsSourceNotes Property** MSBuild Extension Pack Help 4.0.12.0

Sets the notes.

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

**See Also**

Reference

TfsSource Class  

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**TfsSourceOverrideText Property**

Lets you set text to override check-in policies

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference  
TfsSource Class  

---

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TfsSourceOverwrite Property

Overwrites writable files that are not checked out.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
TfsSource Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsSourcePendingChanges Property**

Gets the pending changes in the format '/Format:detailed'

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

- TfsSource Class

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsSourcePendingChangesExist**  
**Property**

Gets whether pending changes exist for a given ItemPath

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

- TfsSource Class  

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsSourcePendingChangesExistItem Property**

Task Item stores whether changes exist for the given ItemPath. Identity stores the path, PendingChangesExist metadata stores boolean.

**Namespace:** MSBuild.ExtensionPack.VisualStudio

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

Reference

TfsSource Class

MSBuild.ExtensionPack.VisualBasic Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
TfsSourceRecursive Property

Sets whether the Tfs operation should be recursive. Default is true.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

TfsSource Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
TfsSourceServer Property

Sets the TFS Server

**Namespace:** MSBuild.ExtensionPack.VisualStudio

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

See Also

Reference

TfsSource Class


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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsSourceVersion Property**

Sets the version of Tfs. Default is 2013

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**  
TfsSource Class  

---

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See Also

Reference

TfsSource Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsSourceWorkingDirectory Property**

Sets the working directory. If the directory is mapped in a workspace, then there is no need to specify the Server.

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

TfsSource Class  

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsSourceAdmin Class**  
MSBuild Extension Pack Help 4.0.12.0

**Valid TaskActions are:**


**Remote Execution Support:** NA

**Inheritance Hierarchy**

```
System
  Object
  Microsoft.Build.UtilitiesTask
    MSBuild.ExtensionPackBaseTask
```

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

The **TfsSourceAdmin** type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TfsSourceAdmin</td>
<td></td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ExitCode</td>
<td>Gets the ExitCode</td>
</tr>
<tr>
<td>NewItem</td>
<td>ItemSpec to branch too</td>
</tr>
<tr>
<td>OldItem</td>
<td>ItemSpec to branch</td>
</tr>
<tr>
<td>Version</td>
<td>Sets the version of Tfs. Default is 2013</td>
</tr>
<tr>
<td>VersionSpec</td>
<td>Sets the version spec for Branch</td>
</tr>
<tr>
<td>WorkingDirectory</td>
<td>Sets the working directory.</td>
</tr>
</tbody>
</table>
Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\..\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\..\Common\MSBuild.ExtensionPack.tasks')"></PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- Perform various source administration operations -->
                </Target>
  </Project>
```

See Also

Reference


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Send comments on this topic to MSBuild ExtensionPack Feedback
TfsSourceAdmin Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
TfsSourceAdmin Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
The **TfsSourceAdmin** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ExitCode</td>
<td>Gets the ExitCode</td>
</tr>
<tr>
<td>NewItem</td>
<td>ItemSpec to branch too</td>
</tr>
<tr>
<td>OldItem</td>
<td>ItemSpec to branch</td>
</tr>
<tr>
<td>Version</td>
<td>Sets the version of Tfs. Default is 2013</td>
</tr>
<tr>
<td>VersionSpec</td>
<td>Sets the version spec for Branch</td>
</tr>
<tr>
<td>WorkingDirectory</td>
<td>Sets the working directory.</td>
</tr>
</tbody>
</table>

## See Also

*Reference*

**TfsSourceAdmin Class**

**MSBuild.ExtensionPack.VisualStudio Namespace**

---

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Send comments on this topic to [MSBuild ExtensionPack Feedback](mailto:feedback@MSBuildExtensionPack.com)
TfsSourceAdminExitCode

Property

Gets the ExitCode

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

TfsSourceAdmin Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsSourceAdminNewItem Property**

ItemSpec to branch too

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference:

- TfsSourceAdmin Class  

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
TfsSourceAdminOldItem Property

ItemSpec to branch

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
TfsSourceAdmin Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
TfsSourceAdminVersion Property

Sets the version of Tfs. Default is 2013

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
TfsSourceAdmin Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
TfsSourceAdminVersionSpec Property

Sets the version spec for Branch

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

## See Also

**Reference**  
TfsSourceAdmin Class  

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
TfsSourceAdminWorkingDirectory Property

Sets the working directory.

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

- TfsSourceAdmin Class  

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsVersion Class**

**Valid TaskActions are:**

*GetVersion* *(Required: TfsBuildNumber, VersionFormat Optional: Major, Minor, BuildNumberRegex, PaddingCount, PaddingDigit, StartDate, DateFormat, BuildName, Delimiter, Build, Revision, VersionTemplateFormat, CombineBuildAndRevision, UseUtcDateOutput: Version, Major, Minor, Build, Revision)*

Please Note: The output of GetVersion should not be used to change the $(BuildNumber). For guidance, see: http://freetodev.spaces.live.com/blog/cns!EC3C8F2028D842D5!404.entry


Remote Execution Support: NA

**Inheritance Hierarchy**


Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The TfsVersion type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🌣 TfsVersion</td>
<td></td>
</tr>
</tbody>
</table>

Top

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameter</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>AssemblyVersion</td>
<td>Sets the AssemblyVersion. Defaults to Version if not set.</td>
</tr>
<tr>
<td>Build</td>
<td>Gets or Sets the Build version</td>
</tr>
<tr>
<td>BuildName</td>
<td>Sets the name of the build. For Tfs 2005 use $(BuildType), for Tfs 2008 use $(BuildDefinition)</td>
</tr>
<tr>
<td>BuildNumberRegex</td>
<td>Sets the BuildNumberRegex to determine the version number from the BuildNumber when using in Synced mode. Default is \d+.\d+.\d+.\d+</td>
</tr>
<tr>
<td>CombineBuildAndRevision</td>
<td>Sets whether to make the revision a combination of the Build and Revision.</td>
</tr>
<tr>
<td>DateFormat</td>
<td>Sets the date format to use when using VersionFormat=&quot;DateTime&quot;. e.g. MMdd</td>
</tr>
<tr>
<td>Delimiter</td>
<td>Sets the Delimiter to use in the version number. Default is .</td>
</tr>
<tr>
<td>Files</td>
<td>Sets the files to version</td>
</tr>
<tr>
<td>ForceSetVersion</td>
<td>Set to true to force SetVersion action to update files that do not have AssemblyVersion</td>
</tr>
<tr>
<td>Major</td>
<td>Sets the major version</td>
</tr>
<tr>
<td>Minor</td>
<td>Sets the minor version</td>
</tr>
<tr>
<td>PaddingCount</td>
<td>Sets the number of padding digits to use, e.g. 4</td>
</tr>
<tr>
<td>PaddingDigit</td>
<td>Sets the padding digit to use, e.g. 0</td>
</tr>
<tr>
<td>Revision</td>
<td>Gets or Sets the Revision version</td>
</tr>
<tr>
<td>SetAssemblyFileVersion</td>
<td>Set to True to set the AssemblyFileVersion when calling SetVersion. Default is true.</td>
</tr>
<tr>
<td>SetAssemblyVersion</td>
<td>Set to True to set the AssemblyVersion when calling SetVersion. Default is false.</td>
</tr>
<tr>
<td>StartDate</td>
<td>Sets the start date to use when using VersionFormat=&quot;Elapsed&quot;</td>
</tr>
<tr>
<td>TextEncoding</td>
<td>Sets the file encoding. Default is UTF8</td>
</tr>
<tr>
<td>TfsBuildNumber</td>
<td>Sets the Tfs Build Number. Use $(BuildNumber) for Tfs 2005 and 2008.</td>
</tr>
<tr>
<td>UseUtcDate</td>
<td>Set to True to get the elapsed calculation using UTC Date Time. Default is false.</td>
</tr>
<tr>
<td>Version</td>
<td>Gets or Sets the Version</td>
</tr>
<tr>
<td>VersionFormat</td>
<td>Sets the Version Format. Valid VersionFormats are Elapsed, DateTime, Synced</td>
</tr>
</tbody>
</table>
### Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks')">$TPath</TPath>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <ItemGroup>
    <FilesToVersion Include="C:\Demo\CommonAssemblyInfo.cs" />
  </ItemGroup>
  <Target Name="Default">
    <!-- Get a version number based on the elapsed days since a given date -->
      <Output TaskParameter="Version" PropertyName="NewVersion" />
      <Message Text="Elapsed Version is $(NewVersion)" />
    <!-- Get a version number based on the format of a given datetime -->
      <Output TaskParameter="Version" PropertyName="NewVersion" />
      <Message Text="Date Version is $(NewVersion)" />
    <!-- Set the version in a collection of files -->
      <Output TaskParameter="Version" PropertyName="NewVersion" />
      <Message Text="Collection Version: $(NewVersion)" />
    <!-- Set the version in a collection of files, forcing AssemblyVersion to be inserted even if it was not present in the affected file -->
      <Output TaskParameter="Version" PropertyName="NewVersion" />
      <Message Text="Collection Version: $(NewVersion)" />
    <!-- Get a version number based on the elapsed days since a given date and use a comma as the delimiter -->
      <Output TaskParameter="Version" PropertyName="NewVersion" />
      <Message Text="C++ Version: $(NewcppVersion)" />
  </Target>
</Project>
```
**TfsVersion Constructor**

**Namespace:** MSBuild.ExtensionPack.VisualStudio

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

---

**See Also**

Reference

**TfsVersion Class**

**MSBuild.ExtensionPack.VisualStudio Namespace**

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
The **TfsVersion** type exposes the following members.

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AssemblyVersion</strong></td>
<td>Sets the AssemblyVersion. Defaults to Version if not set.</td>
</tr>
<tr>
<td><strong>Build</strong></td>
<td>Gets or Sets the Build version</td>
</tr>
<tr>
<td><strong>BuildName</strong></td>
<td>Sets the name of the build. For Tfs 2005 use $(BuildType), for Tfs 2008 use $(BuildDefinition)</td>
</tr>
<tr>
<td><strong>BuildNumberRegex</strong></td>
<td>Sets the BuildNumberRegex to determine the version number from the BuildNumber when using in Synced mode. Default is \d+.\d+.\d+ \d+</td>
</tr>
<tr>
<td><strong>CombineBuildAndRevision</strong></td>
<td>Sets whether to make the revision a combination of the Build and Revision.</td>
</tr>
<tr>
<td><strong>DateFormat</strong></td>
<td>Sets the date format to use when using VersionFormat=&quot;DateTime&quot;. e.g. MMdd</td>
</tr>
<tr>
<td><strong>Delimiter</strong></td>
<td>Sets the Delimiter to use in the version number. Default is .</td>
</tr>
<tr>
<td><strong>Files</strong></td>
<td>Sets the files to version</td>
</tr>
<tr>
<td><strong>ForceSetVersion</strong></td>
<td>Set to true to force SetVersion action to update files that do not have AssemblyVersion</td>
</tr>
<tr>
<td><strong>Major</strong></td>
<td>Sets the major version</td>
</tr>
<tr>
<td><strong>Minor</strong></td>
<td>Sets the minor version</td>
</tr>
<tr>
<td><strong>PaddingCount</strong></td>
<td>Sets the number of padding digits to use, e.g. 4</td>
</tr>
<tr>
<td><strong>PaddingDigit</strong></td>
<td>Sets the padding digit to use, e.g. 0</td>
</tr>
<tr>
<td><strong>Revision</strong></td>
<td>Gets or Sets the Revision version</td>
</tr>
<tr>
<td><strong>SetAssemblyFileVersion</strong></td>
<td>Set to True to set the AssemblyFileVersion when calling SetVersion. Default is true.</td>
</tr>
<tr>
<td><strong>SetAssemblyVersion</strong></td>
<td>Set to True to set the AssemblyVersion when calling SetVersion. Default is false.</td>
</tr>
<tr>
<td><strong>StartDate</strong></td>
<td>Sets the start date to use when using VersionFormat=&quot;Elapsed&quot;</td>
</tr>
<tr>
<td>Property</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>TextEncoding</td>
<td>Sets the file encoding. Default is UTF8</td>
</tr>
<tr>
<td>TfsBuildNumber</td>
<td>Sets the Tfs Build Number. Use $(BuildNumber) for Tfs 2005 and 2008.</td>
</tr>
<tr>
<td>UseUtcDate</td>
<td>Set to True to get the elapsed calculation using UTC Date Time. Default is false</td>
</tr>
<tr>
<td>Version</td>
<td>Gets or Sets the Version</td>
</tr>
<tr>
<td>VersionFormat</td>
<td>Sets the Version Format. Valid VersionFormats are Elapsed, DateTime, Synced</td>
</tr>
<tr>
<td>VersionTemplateFormat</td>
<td>Specify the format of the build number. A format for each part must be specified or left blank, e.g. &quot;00.000.00.000&quot;, &quot;..0000.0&quot;</td>
</tr>
</tbody>
</table>

**See Also**

Reference

TfsVersion Class


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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsVersion**

Sets the AssemblyVersion. Defaults to Version if not set.

**Namespace:** MSBuild.ExtensionPack.VisualStudio

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

**Reference**

TfsVersion Class  

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsVersionBuild Property**

Gets or Sets the Build version

**Namespace:** MSBuild.ExtensionPack.VisualStudio

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

Reference

TfsVersion Class


---

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Send comments on this topic to MSBuild ExtensionPack Feedback
TfsVersionBuildName Property

Sets the name of the build. For Tfs 2005 use $(BuildType), for Tfs 2008 use $(BuildDefinition)

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

TfsVersion Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsVersionBuildNumberRegex**  
**Property**

Sets the BuildNumberRegex to determine the version number from the BuildNumber when using in Synced mode. Default is `\d+\.\d+\.\d+\.\d+`

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
TfsVersion Class  

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
TfsVersionCombineBuildAndRevision **Property**

Sets whether to make the revision a combination of the Build and Revision.

**Namespace:** MSBuild.ExtensionPack. VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

### See Also

Reference

- TfsVersion Class  

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
TfsVersionDateFormat Property

Sets the date format to use when using VersionFormat="DateTime". e.g. MMdd

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
TfsVersion Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsVersionDelimiter**  

**Property**  

Sets the Delimiter to use in the version number. Default is .  

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0  

---

**See Also**  

- [TfsVersion Class](#)  

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsVersionFiles Property**  MSBuild Extension Pack Help 4.0.12.0

Sets the files to version

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

*TfsVersion Class*


---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsVersionForceSetVersion**  
**Property**

Set to true to force SetVersion action to update files that do not have AssemblyVersion | AssemblyFileVersion present. Default is false. ForceSetVersion does not affect AssemblyVersion when SetAssemblyVersion is false.

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

- Reference: TfsVersion Class  

---

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TfsVersionMajor

Sets the major version

**Namespace:** MSBuild.ExtensionPack.VisualStudio

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

Reference

[TfsVersion Class](#)


---

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Send comments on this topic to [MSBuild ExtensionPack Feedback](#)
TfsVersionMinor

Property

Sets the minor version

**Namespace:** MSBuild.ExtensionPack.VisualStudio

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

**Reference**

TfsVersion Class


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Send comments on this topic to MSBuild ExtensionPack Feedback
TfsVersionPaddingCount Property

Sets the number of padding digits to use, e.g. 4

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

TfsVersion Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
TfsVersionPaddingDigit Property

Sets the padding digit to use, e.g. 0

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
TfsVersion Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsVersionRevision Property**

Gets or Sets the Revision version

**Namespace:** MSBuild.ExtensionPack.VisualStudio

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

TfsVersion Class


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**TfsVersionSetAssemblyFileVersion**  MSBuild Extension Pack

**Property**

Set to True to set the AssemblyFileVersion when calling SetVersion. Default is true.

**Namespace:** MSBuild.ExtensionPack.VisualStudio

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

Reference

TfsVersion Class


---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsVersionSetAssemblyVersion**  MSBuild Extension Pack Help  4.0.12.0

**Property**

Set to True to set the AssemblyVersion when calling SetVersion. Default is false.

**Namespace:**  MSBuild.ExtensionPack.VisualStudio

**Assembly:**  MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  Version:  4.0.0.0

**See Also**

Reference

TfsVersion Class


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Send comments on this topic to MSBuild ExtensionPack Feedback
TfsVersionStartDate

Property

Sets the start date to use when using VersionFormat="Elapsed"

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
TfsVersion Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsVersionTextEncoding Property**

Sets the file encoding. Default is UTF8

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**

TfsVersion Class  

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Send comments on this topic to MSBuild ExtensionPack Feedback
<table>
<thead>
<tr>
<th>TfsVersion</th>
<th>TfsBuildNumber Property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sets the Tfs Build Number. Use $(BuildNumber) for Tfs 2005 and 2008.</td>
<td></td>
</tr>
</tbody>
</table>

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**  
TfsVersion Class  

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**TfsVersionUseUtcDate Property**

Set to True to get the elapsed calculation using UTC Date Time. Default is false

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

TfsVersion Class  

---

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TfsVersionProperty

Gets or Sets the Version

**Namespace:** MSBuild.ExtensionPack.VisualStudio

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

**Reference**

TfsVersion Class  

---

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**TfsVersion**

Sets the Version Format. Valid VersionFormats are Elapsed, DateTime, Synced

**Namespace:** MSBuild.ExtensionPack.VisualStudio

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

**Reference**

TfsVersion Class


---

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**TfsVersionTemplateFormat**

**Property**

Specify the format of the build number. A format for each part must be specified or left blank, e.g. "00.000.00.000", "..0000.0"

**Namespace:**  MSBuild.ExtensionPack.VisualStudio

**Assembly:**  MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  **Version:**  4.0.0.0

---

**See Also**

**Reference**

TfsVersion Class  

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**VB6 Class**

Valid TaskAction types are:

*Build* (Required: Projects) **Optional:** VB6Path, StopOnError

Remote Execution Support: NA

**Inheritance Hierarchy**


**Namespace:** MSBuild.ExtensionPack.VisualStudio

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The VB6 type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VB6</td>
<td></td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IfModificationExists</td>
<td>Only build if any referenced source file is newer then the build output</td>
</tr>
<tr>
<td>Projects</td>
<td>Sets the projects. Use an 'OutDir' metadata item to specify the output directory. The OutDir will be created if it does not exist.</td>
</tr>
<tr>
<td>StopOnError</td>
<td>Set to true to stop processing when a project in the Projects collection fails to compile. Default is false.</td>
</tr>
<tr>
<td>VB6Path</td>
<td>Sets the VB6Path. Default is [Program Files]\Microsoft Visual Studio\VB98\VB6.exe</td>
</tr>
</tbody>
</table>

**Examples**
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\..\Common\MSBuild.ExtensionPack.tasks')"></TPath>
  </PropertyGroup>
  <Import Project="$(TPath)" />
  <ItemGroup>
    <ProjectsToBuild Include="C:\MyVB6Project.vbp">
      <OutDir>c:\output</OutDir>
      <!-- Note the special use of ChgPropVBP property to change project properties at build time -->
      <ChgPropVBP>RevisionVer=4;CompatibleMode=</ChgPropVBP>
    </ProjectsToBuild>
    <ProjectsToBuild Include="C:\MyVB6Project2.vbp" />
  </ItemGroup>
  <Target Name="Default">
    <!-- Build a collection of VB6 projects -
  </Target>
</Project>

See Also

Reference


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**VB6 Constructor**

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
VB6 Class

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The VB6 type exposes the following members.

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IfModificationExists</td>
<td>Only build if any referenced source file is newer than the build output</td>
</tr>
<tr>
<td>Projects</td>
<td>Sets the projects. Use an 'OutDir' metadata item to specify the output directory. The OutDir will be created if it does not exist.</td>
</tr>
<tr>
<td>StopOnError</td>
<td>Set to true to stop processing when a project in the Projects collection fails to compile. Default is false.</td>
</tr>
<tr>
<td>VB6Path</td>
<td>Sets the VB6Path. Default is [Program Files]\Microsoft Visual Studio\VB98\VB6.exe</td>
</tr>
</tbody>
</table>

### See Also

Reference
- VB6 Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
VB6IfModificationExists Property

Only build if any referenced source file is newer then the build output

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
VB6 Class

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VB6Projects Property

Sets the projects. Use an 'OutDir' metadata item to specify the output directory. The OutDir will be created if it does not exist.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
VB6 Class

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VB6StopOnError Property

Set to true to stop processing when a project in the Projects collection fails to compile. Default is false.

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
VB6 Class

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Send comments on this topic to MSBuild ExtensionPack Feedback
VB6Path Property

Sets the VB6Path. Default is [Program Files]\Microsoft Visual Studio\VB98\VB6.exe

**Namespace:** MSBuild.ExtensionPack.VisualStudio

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

### See Also

**Reference**

VB6 Class


---

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**VC6 Class**

**Valid TaskActions are:**

*Build* *(Required: Projects Optional: MSDEVPath, StopOnError)*

**Remote Execution Support:** NA

**Inheritance Hierarchy**

SystemObject  Microsoft.Build.UtilitiesTask  
MSBuild.ExtensionPackBaseTask  

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The VC6 type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🌟 VC6</td>
<td>—</td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🌟 MSDEVPath</td>
<td>Sets the MSDEV path. Default is [Program Files]\Microsoft Visual Studio\Common\MSDev98\Bin\MSDEV.EXE</td>
</tr>
<tr>
<td>🌟 Projects</td>
<td>Sets the .dsp/.dsw projects to build.</td>
</tr>
<tr>
<td>🌟 StopOnError</td>
<td>Set to true to stop processing when a project in the Projects collection fails to compile. Default is false.</td>
</tr>
</tbody>
</table>

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"/>
```
<PropertyGroup>
  <TPath>$(MSBuildProjectDirectory)\.\MSBuild.ExtensionPack.tasks</TPath>
  <TPath Condition="Exists('$(MSBuildProjectDirectory)\.\..\Common\MSBuild.ExtensionPack.tasks')"/>
</PropertyGroup>

<Import Project="$(TPath)"/>

<ItemGroup>
  <!-- This uses $(Platform) and $(Configuration) for all projects in the .dsp file -->
  <ProjectsToBuild Include="C:\MyVC6Project.dsp"/>
  <!-- Uses supplied platform and configuration -->
  <ProjectsToBuild Include="C:\MyVC6Project2.dsp">
    <Platform>Win32</Platform>
    <Configuration>Debug</Configuration>
  </ProjectsToBuild>
  <!-- Uses $(Platform) and $(Configuration) for just the specified projects in the .dsw file -->
  <ProjectsToBuild Include="C:\MyVC6Project3.dsw">
    <Projects>Project1;Project2</Projects>
  </ProjectsToBuild>
</ItemGroup>

<Target Name="Default">
  <!-- Build a collection of VC6 projects -->
</Target>
</Project>
VC6 Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
VC6 Class

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The **VC6** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MSDEVPath</strong></td>
<td>Sets the MSDEV path. Default is <code>[Program Files]\Microsoft Visual Studio\Common\MSDev98\Bin\MSDEV.EXE</code></td>
</tr>
<tr>
<td><strong>Projects</strong></td>
<td>Sets the .dsp/.dsw projects to build.</td>
</tr>
<tr>
<td><strong>StopOnError</strong></td>
<td>Set to true to stop processing when a project in the Projects collection fails to compile. Default is false.</td>
</tr>
</tbody>
</table>

## Top

## See Also

**Reference**

**VC6 Class**

**MSBuild.ExtensionPack.VisualStudio Namespace**

---

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Send comments on this topic to **MSBuild ExtensionPack Feedback**
VC6MSDEVPATH Property

Sets the MSDEV path. Default is [Program Files]\Microsoft Visual Studio\Common\MSDev98\Bin\MSDEV.EXE

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
VC6 Class

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**VC6Projects Property**

Sets the .dsp/.dsw projects to build.

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**Remarks**

An additional Projects metadata item may be specified for each project to indicate which workspace project(s) to build. If none is supplied, the special-case 'ALL' project name is used to inform MSDEV to build all projects contained within the workspace/project.

**See Also**

Reference  
**VC6 Class**  

---

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**VC6StopOnError**

Property

Set to true to stop processing when a project in the Projects collection fails to compile. Default is false.

**Namespace:** MSBuild.ExtensionPack.VisualStudio

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

**See Also**

Reference

VC6 Class


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Inheritance Hierarchy

SystemObject  Microsoft.Build.UtilitiesTask
             Microsoft.Build.UtilitiesToolTask
             MSBuild.ExtensionPack.VisualStudio

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The **VSDevEnv** type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VSDevEnv</td>
<td></td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configuration</td>
<td>The Configuration to Build.</td>
</tr>
<tr>
<td>FilePath</td>
<td>The Path to the solution or Project to build</td>
</tr>
<tr>
<td>OutputFile</td>
<td>Specifies the File to log all output to. Defaults to the [Path.Dir]\Output\ [Path.FileName].[Configuration].txt</td>
</tr>
<tr>
<td>OutputFolder</td>
<td>Specifies the output folder to log to. Default is [Path.Dir]\Output\</td>
</tr>
<tr>
<td>Rebuild</td>
<td>Specifies whether Clean and then build the solution or project with the specified configuration. Default is false</td>
</tr>
<tr>
<td>Version</td>
<td>The version of Visual Studio to run, e.g. 8.0, 9.0, 10.0. Default is 9.0</td>
</tr>
</tbody>
</table>

### Examples
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild.ExtensionPack.Tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.Tasks')"/>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <Output TaskParameter="ExitCode" PropertyName />
    <Message Text="ExitCode: $(Exit)"/>
  </Target>
</Project>

See Also

Reference

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VSDevEnv Constructor

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

VSDevEnv Class

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The `VSDevEnv` type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configuration</td>
<td>The Configuration to Build.</td>
</tr>
<tr>
<td>FilePath</td>
<td>The Path to the solution or Project to build</td>
</tr>
<tr>
<td>OutputFile</td>
<td>Specifies the File to log all output to. Defaults to the <code>[Path.Dir]\Output\[Path.FileName].[Configuration].txt</code></td>
</tr>
<tr>
<td>OutputFolder</td>
<td>Specifies the output folder to log to. Default is <code>[Path.Dir]\Output\</code></td>
</tr>
<tr>
<td>Rebuild</td>
<td>Specifies whether Clean and then build the solution or project with the specified configuration. Default is false</td>
</tr>
<tr>
<td>Version</td>
<td>The version of Visual Studio to run, e.g. 8.0, 9.0, 10.0. Default is 9.0</td>
</tr>
</tbody>
</table>

## See Also

- **Reference**
  - `VSDevEnv Class`

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**VSDevEnvConfiguration Property**

The Configuration to Build.

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

- VSDevEnv Class

---

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**VSDevEnvFilePath**

The Path to the solution or Project to build

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

- VSDevEnv Class

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VSDevEnvOutputFile Property

Specifies the File to log all output to. Defaults to the [Path.Dir]\Output\[Path.FileName].[Configuration].txt

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
VSDevEnv Class

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VSDevEnvOutputFolder Property

Specifies the output folder to log to. Default is [Path.Dir]\Output\n
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
VSDevEnv Class

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**VSDevEnvRebuild Property**

Specifies whether Clean and then build the solution or project with the specified configuration. Default is false

**Namespace:** MSBuild.ExtensionPack.VisualStudio  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

VSDevEnv Class  

---

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VSDevEnvVersion Property

The version of Visual Studio to run, e.g. 8.0, 9.0, 10.0. Default is 9.0

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
VSDevEnv Class

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MSBuild.ExtensionPack.Web

Namespace

Overview
This namespace hosts tasks that interact with IIS7

Helpful Links

IIS

Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HttpWebRequest</td>
<td>Valid TaskActions are:</td>
</tr>
<tr>
<td></td>
<td>GetResponse <em>(Required):</em> Url <em>(Optional):</em> ContentType, Timeout, SkipSslCertificateValidation, Retries, RetryInterval, UseIntegratedAuthentication, UserName, UserPassword</td>
</tr>
<tr>
<td></td>
<td>Post <em>(Required):</em> Url <em>(Optional):</em> ContentType, Timeout, RequestContent, SkipSslCertificateValidation, Retries, RetryInterval, UseIntegratedAuthentication, UserName, UserPassword</td>
</tr>
<tr>
<td></td>
<td>Remote Execution Support: NA</td>
</tr>
<tr>
<td>Iis6AppPool</td>
<td>Valid TaskActions are:</td>
</tr>
<tr>
<td></td>
<td>Create <em>(Required):</em> Name <em>(Optional):</em> Properties</td>
</tr>
<tr>
<td></td>
<td>CheckExists <em>(Required):</em> Name <em>(Output):</em> Exists</td>
</tr>
<tr>
<td></td>
<td>Delete <em>(Required):</em> Name</td>
</tr>
<tr>
<td></td>
<td>GetMetabasePropertyValue <em>(Required):</em> Name, MetabasePropertyName <em>(Output):</em> MetabasePropertyValue</td>
</tr>
<tr>
<td></td>
<td>Modify <em>(Required):</em> Name</td>
</tr>
<tr>
<td></td>
<td>Recycle <em>(Required):</em> Name</td>
</tr>
<tr>
<td></td>
<td>Start <em>(Required):</em> Name</td>
</tr>
<tr>
<td></td>
<td>Stop <em>(Required):</em> Name</td>
</tr>
<tr>
<td>Service</td>
<td>Valid TaskActions are:</td>
</tr>
<tr>
<td>------------------</td>
<td>----------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Isis6ServiceExtensionFile</td>
<td>Add (Required: Path Optional: Deletable, Force Description, GroupId, Permission)</td>
</tr>
<tr>
<td></td>
<td>CheckExists (Required: Path Output: Exists)</td>
</tr>
<tr>
<td></td>
<td>Delete (Required: Path)</td>
</tr>
<tr>
<td></td>
<td><strong>Remote Execution Support</strong>: Yes. Please note that the machine you execute from must have IIS installed.</td>
</tr>
<tr>
<td>Isis6VirtualDirectory</td>
<td>CheckExists (Required: Website Optional: Name)</td>
</tr>
<tr>
<td></td>
<td>Create (Required: Website Optional: Name, Parent, RequireApplication, DirectoryType, AppPool, Properties)</td>
</tr>
<tr>
<td></td>
<td>Delete (Required: Website Optional: Name, Parent)</td>
</tr>
<tr>
<td></td>
<td><strong>Remote Execution Support</strong>: Yes. Please note that the machine you execute from must have IIS installed.</td>
</tr>
<tr>
<td>Isis6Website</td>
<td><strong>Remote Execution Support</strong>: Yes. Please note that the machine you execute from must have IIS installed.</td>
</tr>
<tr>
<td></td>
<td>Create (Required: Name Optional: Force, Properties, Identifier Output: Identifier)</td>
</tr>
<tr>
<td></td>
<td>CheckExists (Required: Name Output: Exists)</td>
</tr>
<tr>
<td></td>
<td>Continue (Required: Name)</td>
</tr>
<tr>
<td></td>
<td>Delete (Required: Name)</td>
</tr>
<tr>
<td></td>
<td>GetMetabasePropertyValue (Required: Name, MetabasePropertyName Output: MetabasePropertyValue)</td>
</tr>
<tr>
<td></td>
<td>Start (Required: Name)</td>
</tr>
<tr>
<td></td>
<td>Stop (Required: Name)</td>
</tr>
<tr>
<td></td>
<td>Pause (Required: Name)</td>
</tr>
<tr>
<td>Isis7Application</td>
<td><strong>Remote Execution Support</strong>: Yes. Please note that the machine you execute from must have IIS installed.</td>
</tr>
<tr>
<td></td>
<td>CheckExists (Required: Website, Applications Output: Exists)</td>
</tr>
</tbody>
</table>
**Delete** *(Required: Website, Applications)*

**Remote Execution Support:** Yes

### Iis7AppPool

**Valid TaskActions are:**

- **CheckExists** *(Required: Name* *Output: Exists)*

- **Create** *(Required: Name* *Optional: Force, IdentityType, UseDefaultIdentity, PoolIdentity, IdentityPassword, ManagedRuntimeVersion, AutoStart, Enable32BitAppOnWin64, PipelineMode, QueueLength, IdleTimeout, PeriodicRestartPrivateMemory, PeriodicRestartTime, MaxProcesses, RecycleRequests, RecycleInterval, RecycleTimes, RapidFailProtection, LoadUserProfile)*

- **Delete** *(Required: Name)*

- **GetInfo** *(Required: Name)*

- **Modify** *(Required: Name* *Optional: Force, ManagedRuntimeVersion, AutoStart, Enable32BitAppOnWin64, QueueLength, IdleTimeout, PeriodicRestartPrivateMemory, PeriodicRestartTime, MaxProcesses, RecycleRequests, RecycleInterval, RecycleTimes, RapidFailProtection, LoadUserProfile)*

- **Recycle** *(Required: Name)*

- **SetIdentity** *(Optional: UseDefaultIdentity, IdentityType, PoolIdentity, IdentityPassword)*

- **SetPipelineMode** *(Optional: PipelineMode)*

- **Start** *(Required: Name* *Optional: RetryCount)*

- **Stop** *(Required: Name)*

**Remote Execution Support:** Yes

### Iis7Binding

**Valid TaskActions are:**

- **Add** *(Required: Name, BindingInformation or (CertificateHash and CertificateStoreName)* *Optional: BindingProtocol)*

- **CheckExists** *(Required: Name, BindingInformation* *Optional: BindingProtocol* *Output: Exists, BindingProtocol)*

- **Modify** *(Required: Name, BindingInformation,}
PreviousBindingProtocol, PreviousBindingInformation)

Remove (Required: Name Optional: BindingProtocol)

Remote Execution Support: Yes

Valid TaskActions are:


AddMimeType (Required: Name, MimeTypes)

AddResponseHeaders (Required: Name, HttpResponseHeaders)

AddVirtualDirectory (Required: Name, VirtualDirectories Optional: Force)

CheckExists (Required: Name Output: Exists)

CheckVirtualDirectoryExists (Required: Name, VirtualDirectories Output: Exists)


Delete (Required: Name)

DeleteVirtualDirectory (Required: Name, VirtualDirectories)

GetInfo (Required: Name Output: SiteInfo, SiteId)

ModifyPath (Required: Name, Path Output: SiteId)

ModifyLogDirectory (Required: Name, LogDirectory)

SetWindowsAuthenticationProviders (Required: Name, Providers Optional: UseKernelMode)

Start (Required: Name)

Stop (Required: Name)

Remote Execution Support: Yes
<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
<th>Required</th>
<th>Optional</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>DownloadFile</td>
<td>(Required: Url, FileName) Optional: Proxy, BypassOnLocal</td>
<td></td>
<td></td>
<td>Response</td>
</tr>
<tr>
<td>OpenRead</td>
<td>(Required: Url) Optional: DisplayToConsole, Proxy, BypassOnLocal</td>
<td></td>
<td></td>
<td>Data</td>
</tr>
</tbody>
</table>

**Remote Execution Support:** NA

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HttpWebRequest Class

Valid TaskActions are:

GetResponse (Required: Url Optional: ContentType, Timeout, SkipSslCertificateValidation, Retries, RetryInterval, UseIntegratedAuthentication, UserName, UserPassword

Output: Response, Status)

Post (Required: Url Optional: ContentType, Timeout, RequestContent, SkipSslCertificateValidation, Retries, RetryInterval, UseIntegratedAuthentication, UserName, UserPassword

Output: Response, Status)

Remote Execution Support: NA

Inheritance Hierarchy

SystemObject  Microsoft.Build.UtilitiesTask
   MSBuild.ExtensionPackBaseTask
      MSBuild.ExtensionPack.WebHttpWebRequest

Namespace: MSBuild.ExtensionPack.Web
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The HttpWebRequest type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Constructor" /></td>
<td>HttpWebRequest</td>
</tr>
</tbody>
</table>

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Property" /></td>
<td>ContentType</td>
</tr>
<tr>
<td>The content type of the request. By default, it is &quot;application/x-www-form-urlencoded&quot; (used for classic HTTP POST) for Post and null for GetResponse.</td>
<td></td>
</tr>
<tr>
<td><img src="image" alt="Property" /></td>
<td>RequestContent</td>
</tr>
<tr>
<td>The content of the request. For classic HTTP POST, format is</td>
<td></td>
</tr>
</tbody>
</table>
several \[key\]=[value] separated by ";". Could be SOAP for example if ContentType is SOAP.

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Response</td>
<td></td>
</tr>
<tr>
<td>Retries</td>
<td>The number of times the request should be retried before failing.</td>
</tr>
<tr>
<td>RetryInterval</td>
<td>The number of milliseconds between retry attempts. Default is 0.</td>
</tr>
<tr>
<td>SkipSslCertificateValidation</td>
<td>Set to true to accept all SSL certificates.</td>
</tr>
<tr>
<td>Status</td>
<td>Contains the StatusDescription for successful requests. Contains the Status when encountering a WebException.</td>
</tr>
<tr>
<td>Timeout</td>
<td>Sets the number of milliseconds to wait before the request times out. The default value is 100,000 milliseconds (100 seconds).</td>
</tr>
<tr>
<td>Url</td>
<td>Sets the name of the AppPool. Required.</td>
</tr>
<tr>
<td>UseIntegratedAuthentication</td>
<td>The number of milliseconds between retry attempts. Default is 0.</td>
</tr>
</tbody>
</table>

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"
    <PropertyGroup>
        <TPath>$(MSBuildProjectDirectory)\..\MSBuild</TPath>
        <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks')"/>
    </PropertyGroup>
    <Import Project="$(TPath)"/>
    <Target Name="Default">
            <Output TaskParameter="Response" ItemName="Response">
            <Output TaskParameter="Status" PropertyName="ResponseStatus"/>
        <Message Text="Status: $(ResponseStatus)"/>
        <Message Text="StatusDescription: %$(ResponseDetail.StatusDescription)"/>
        <Message Text="StatusCode: %$(ResponseDetail.StatusCode)"/>
        <Message Text="CharacterSet: %$(ResponseDetail.CharacterSet)"/>
        <Message Text="ResponseUri: %$(ResponseDetail.ResponseUri)"/>
    </Target>
```
See Also

Reference
MSBuild.ExtensionPack.Web Namespace

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HttpWebRequest Constructor

Namespace: MSBuild.ExtensionPack.Web
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

HttpRequest Class
MSBuild.ExtensionPack.Web Namespace

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The **HttpWebRequest** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ContentType</strong></td>
<td>The content type of the request. By default, it is &quot;application/x-www-form-urlencoded&quot; (used for classic HTTP POST) for Post and null for GetResponse.</td>
</tr>
<tr>
<td><strong>RequestContent</strong></td>
<td>The content of the request. For classic HTTP POST, format is several [key]=[value] separated by &quot;;&quot;. Could be SOAP for example if ContentType is SOAP.</td>
</tr>
<tr>
<td><strong>Response</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Retries</strong></td>
<td>The number of times the request should be retried before failing.</td>
</tr>
<tr>
<td><strong>RetryInterval</strong></td>
<td>The number of milliseconds between retry attempts. Default is 0.</td>
</tr>
<tr>
<td><strong>SkipSslCertificateValidation</strong></td>
<td>Set to true to accept all SSL certificates.</td>
</tr>
<tr>
<td><strong>Status</strong></td>
<td>Contains the StatusDescription for successful requests. Contains the Status when encountering a WebException.</td>
</tr>
<tr>
<td><strong>Timeout</strong></td>
<td>Sets the number of milliseconds to wait before the request times out. The default value is 100,000 milliseconds (100 seconds).</td>
</tr>
<tr>
<td><strong>Url</strong></td>
<td>Sets the name of the AppPool. Required.</td>
</tr>
<tr>
<td><strong>UseIntegratedAuthentication</strong></td>
<td>The number of milliseconds between retry attempts. Default is 0.</td>
</tr>
</tbody>
</table>

## See Also

**Reference**

- **HttpWebRequest Class**
- **MSBuild.ExtensionPack.Web Namespace**

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Send comments on this topic to MSBuild ExtensionPack Feedback
**HttpWebRequest.ContentType Property**

The content type of the request. By default, it is "application/x-www-form-urlencoded" (used for classic HTTP POST) for Post and null for GetResponse.

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

HttpWebRequest Class  
MSBuild.ExtensionPack.Web Namespace

---

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HttpWebRequest REQUEST CONTENT Property

The content of the request. For classic HTTP POST, format is several [key]= [value] separated by "&". Could be SOAP for example if ContentType is SOAP.

Namespace: MSBuild.ExtensionPack.Web
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

HttpWebRequest Class
MSBuild.ExtensionPack.Web Namespace

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**HttpWebRequestResponse Property**

Namespace: **MSBuild.ExtensionPack.Web**

Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

Reference

HttpWebRequest Class

MSBuild.ExtensionPack.Web Namespace

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HttpWebRequestRetries Property

The number of times the request should be retried before failing.

Namespace: MSBuild.ExtensionPack.Web
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

HttpWebRequest Class
MSBuild.ExtensionPack.Web Namespace
HttpWebRequestRetryInterval Property

The number of milliseconds between retry attempts. Default is 0.

Namespace: MSBuild.ExtensionPack.Web
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

HttpWebRequest Class
MSBuild.ExtensionPack.Web Namespace

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HttpWebRequestSkipSslCertificateValidation Property

Set to true to accept all SSL certificates.

Namespace: MSBuild.ExtensionPack.Web
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
HttpWebRequest Class
MSBuild.ExtensionPack.Web Namespace

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**HttpWebRequestStatus**

Contains the StatusDescription for successful requests. Contains the Status when encountering a WebException.

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

HttpWebRequest Class  
MSBuild.ExtensionPack.Web Namespace

---

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HttpWebRequestTimeout Property

Sets the number of milliseconds to wait before the request times out. The default value is 100,000 milliseconds (100 seconds).

Namespace: MSBuild.ExtensionPack.Web
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
HttpWebRequest Class
MSBuild.ExtensionPack.Web Namespace

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HttpWebRequestUrl Property

Sets the name of the AppPool. Required.

Namespace: MSBuild.ExtensionPack.Web
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

HttpWebRequest Class
MSBuild.ExtensionPack.Web Namespace

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**HttpWebRequestUseIntegratedAuthentication Property**

The number of milliseconds between retry attempts. Default is 0.

**Namespace:** MSBuild.ExtensionPack.Web

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

**See Also**

**Reference**

HttpWebRequest Class  
MSBuild.ExtensionPack.Web Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
Iis6AppPool Class

Valid TaskActions are:

Create (Required: Name Optional: Properties)

CheckExists (Required: Name Output: Exists)

Delete (Required: Name)

GetMetabasePropertyValue (Required: Name, MetabasePropertyName Output: MetabasePropertyValue)

Modify (Required: Name, Properties)

Recycle (Required: Name)

Start (Required: Name)

Stop (Required: Name)

Remote Execution Support: Yes. Please note that the machine you execute from must have IIS installed.

Inheritance Hierarchy

SystemObject Microsoft.Build.UtilitiesTask
    MSBuild.ExtensionPackBaseTask
    MSBuild.ExtensionPack.WebIis6AppPool

Namespace: MSBuild.ExtensionPack.Web
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The Iis6AppPool type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Iis6AppPool</td>
</tr>
</tbody>
</table>

Top

Properties
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exists</td>
<td>Gets whether the app pool exists. Output</td>
</tr>
<tr>
<td>MetabasePropertyName</td>
<td>Sets the Metabase Property Name to retrieve. See Metabase Property Reference (IIS 6.0)</td>
</tr>
<tr>
<td>MetabasePropertyValue</td>
<td>Gets the string value of the requested MetabasePropertyName</td>
</tr>
<tr>
<td>Name</td>
<td>Sets the name of the AppPool. Required.</td>
</tr>
<tr>
<td>Properties</td>
<td>Sets the Properties. Use a semi-colon delimiter. See Metabase Property Reference (IIS 6.0) If a property contains =, enter #~# as a special sequence which will be replaced with = during processing</td>
</tr>
</tbody>
</table>

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\..\MSBuild\Ext\tasks\Common\MSBuild.ExtensionPack.tasks
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\..\Common\MSBuild.ExtensionPack.tasks')">
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- Delete an AppPool -->
    <!-- Create an AppPool -->
    <!-- Modify an AppPool -->
    <!-- Check whether an AppPool exists -->
    <!-- Get Metabase Property Value -->
    <!-- Check whether an AppPool exists -->
    <!-- Get Metabase Property Value -->
  </Target>
</Project>
```
See Also

Reference

MSBuild.ExtensionPack.Web Namespace

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Iis6AppPool Constructor  MSBuild Extension Pack Help 4.0.12.0

Namespace: MSBuild.ExtensionPack.Web
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Iis6AppPool Class
MSBuild.ExtensionPack.Web Namespace

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The **Iis6AppPool** type exposes the following members.

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exists</td>
<td>Gets whether the app pool exists. Output</td>
</tr>
<tr>
<td>MetabasePropertyName</td>
<td>Sets the Metabase Property Name to retrieve. See Metabase Property Reference (IIS 6.0)</td>
</tr>
<tr>
<td>MetabasePropertyValue</td>
<td>Gets the string value of the requested MetabasePropertyName</td>
</tr>
<tr>
<td>Name</td>
<td>Sets the name of the AppPool. Required.</td>
</tr>
<tr>
<td>Properties</td>
<td>Sets the Properties. Use a semi-colon delimiter. See Metabase Property Reference (IIS 6.0) If a property contains =, enter #~# as a special sequence which will be replaced with = during processing</td>
</tr>
</tbody>
</table>

### See Also

- **Iis6AppPool Class**
- **MSBuild.ExtensionPack.Web Namespace**

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Send comments on this topic to **MSBuild ExtensionPack Feedback**
Iis6AppPoolExists Property

Gets whether the app pool exists. Output

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

Iis6AppPool Class  
MSBuild.ExtensionPack.Web Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**Iis6AppPoolMetabasePropertyName Property**

Sets the Metabase Property Name to retrieve. See [Metabase Property Reference (IIS 6.0)](#)

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

### See Also

**Reference**

- Iis6AppPool Class
- MSBuild.ExtensionPack.Web Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
Iis6AppPoolMetabasePropertyValue Property

Gets the string value of the requested MetabasePropertyName

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also

**Reference**  
Iis6AppPool Class  
MSBuild.ExtensionPack.Web Namespace

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### Iis6AppPoolName

**Property**

Sets the name of the AppPool. Required.

**Namespace:** `MSBuild.ExtensionPack.Web`  
**Assembly:** `MSBuild.ExtensionPack` (in `MSBuild.ExtensionPack.dll`)  
**Version:** `4.0.0.0`  

---

### See Also

**Reference**

- `Iis6AppPool Class`
- `MSBuild.ExtensionPack.Web Namespace`

---

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**Iis6AppPoolProperties**

**Property**

Sets the Properties. Use a semi-colon delimiter. See [Metabase Property Reference (IIS 6.0)](IIS%206.0) If a property contains =, enter #~# as a special sequence which will be replaced with = during processing

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

See [Iis6AppPool Class](Iis6AppPool%20Class)  

---

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Iis6ServiceExtensionFile

Class

Valid TaskActions are:

*Add (Required: Path Optional: Deletable, Force Description, GroupId, Permission)*

*CheckExists (Required: Path Output: Exists)*

*Delete (Required: Path)*

Remote Execution Support: Yes. Please note that the machine you execute from must have IIS installed.

Inheritance Hierarchy

```
SystemObject  Microsoft.Build.UtilitiesTask
    MSBuild.ExtensionPackBaseTask
    MSBuild.ExtensionPack.WebIis6ServiceExtensionFile
```

Namespace: MSBuild.ExtensionPack.Web
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The Iis6ServiceExtensionFile type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iis6ServiceExtensionFile</td>
<td></td>
</tr>
</tbody>
</table>

Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DeleteFile</td>
<td></td>
</tr>
<tr>
<td>FileExists</td>
<td></td>
</tr>
</tbody>
</table>

Properties
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deletable</td>
<td>Sets whether the file can be deleted from the Web Service Extension Restriction List.</td>
</tr>
<tr>
<td>Description</td>
<td>Sets the Description of the web service extension being added</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the service extension file exists. Output</td>
</tr>
<tr>
<td>Force</td>
<td>Set to true to delete an existing extension of the same name. Default is false.</td>
</tr>
<tr>
<td>GroupId</td>
<td>A unique text ID associated with one or more ISAPIs or CGIs required for enabling the group</td>
</tr>
<tr>
<td>Path</td>
<td>Sets the Path to the web extension service file.</td>
</tr>
<tr>
<td>Permission</td>
<td>Sets whether the extension is Allowed or Prohibited. Default is Allowed.</td>
</tr>
</tbody>
</table>

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\.\.\MSBuild.ExtensionPack.tasks</TPath>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- Add an extension file -->
    <!-- Delete an extension file -->
  </Target>
</Project>
```

**See Also**

Reference

MSBuild.ExtensionPack.Web Namespace
**Iis6ServiceExtensionFile Constructor**

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference
- Iis6ServiceExtensionFile Class
- MSBuild.ExtensionPack.Web Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
The **Iis6ServiceExtensionFile** type exposes the following members.

## Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DeleteFile</td>
<td></td>
</tr>
<tr>
<td>FileExists</td>
<td></td>
</tr>
</tbody>
</table>

See Also

**Reference**

**Iis6ServiceExtensionFile Class**

**MSBuild.ExtensionPack.Web Namespace**
Iis6ServiceExtensionFileDeleteFile Method

Namespace: MSBuild.ExtensionPack.Web
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Iis6ServiceExtensionFile Class
MSBuild.ExtensionPack.Web Namespace

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**Iis6ServiceExtensionFile Exists**

**Method**

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**

- Iis6ServiceExtensionFile Class
- MSBuild.ExtensionPack.Web Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
The `Iis6ServiceExtensionFile` type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deletable</td>
<td>Sets whether the file can be deleted from the Web Service Extension Restriction List.</td>
</tr>
<tr>
<td>Description</td>
<td>Sets the Description of the web service extension being added</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the service extension file exists. Output</td>
</tr>
<tr>
<td>Force</td>
<td>Set to true to delete an existing extension of the same name. Default is false.</td>
</tr>
<tr>
<td>GroupId</td>
<td>A unique text ID associated with one or more ISAPIs or CGIs required for enabling the group</td>
</tr>
<tr>
<td>Path</td>
<td>Sets the Path to the web extension service file.</td>
</tr>
<tr>
<td>Permission</td>
<td>Sets whether the extension is Allowed or Prohibited. Default is Allowed.</td>
</tr>
</tbody>
</table>

## See Also

**Reference**

- `Iis6ServiceExtensionFile` Class
- `MSBuild.ExtensionPack.Web` Namespace

---

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Send comments on this topic to [MSBuild ExtensionPack Feedback](mailto:MSBuildExtensionPackFeedback@msbuildextensionpack.com)
Iis6ServiceExtensionFileDeletable Property

Sets whether the file can be deleted from the Web Service Extension Restriction List.

**Namespace:** MSBuild.ExtensionPack.Web
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

See Also

Reference

Iis6ServiceExtensionFile Class
MSBuild.ExtensionPack.Web Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
Iis6ServiceExtensionFileDescription Property

Sets the Description of the web service extension being added

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

Iis6ServiceExtensionFile Class  
MSBuild.ExtensionPack.Web Namespace

---

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Send comments on this topic to MSBuild ExtensionPack Feedback
**Iis6ServiceExtensionFileExists**  MSBuild Extension Pack Help  4.0.12.0

Gets whether the service extension file exists. Output

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

Iis6ServiceExtensionFile Class  
MSBuild.ExtensionPack.Web Namespace

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**Iis6ServiceExtensionFileForce**  
**Property**

Set to true to delete an existing extension of the same name. Default is false.

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

Iis6ServiceExtensionFile Class  
MSBuild.ExtensionPack.Web Namespace

---

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Iis6ServiceExtensionFileGroupId Property

A unique text ID associated with one or more ISAPIs or CGIs required for enabling the group

Namespace: MSBuild.ExtensionPack.Web
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

Iis6ServiceExtensionFile Class
MSBuild.ExtensionPack.Web Namespace

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**Iis6ServiceExtensionFilePath**

Sets the Path to the web extension service file.

**Namespace:** MSBuild.ExtensionPack.Web

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

Reference

*Iis6ServiceExtensionFilePath Class*

*MSBuild.ExtensionPack.Web Namespace*

---

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Iis6ServiceExtensionFilePermission Property

Sets whether the extension is Allowed or Prohibited. Default is Allowed.

**Namespace:** MSBuild.ExtensionPack.Web
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

**See Also**

**Reference**

Iis6ServiceExtensionFile Class
MSBuild.ExtensionPack.Web Namespace

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**Iis6VirtualDirectory**

**Class**

**Valid TaskActions are:**

*CheckExists* (Required: Website Optional: Name)

*Create* (Required: Website Optional: Name, Parent, RequireApplication, DirectoryType, AppPool, Properties)

*Delete* (Required: Website Optional: Name, Parent)

**Remote Execution Support:** Yes. Please note that the machine you execute from must have IIS installed.

**Inheritance Hierarchy**

- SystemObject
- Microsoft.Build.UtilitiesTask
  - MSBuild.ExtensionPackBaseTask
  - MSBuild.ExtensionPack.Web
  - Iis6VirtualDirectory

**Namespace:** MSBuild.ExtensionPack.Web

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The **Iis6VirtualDirectory** type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Iis6VirtualDirectory]</td>
<td>Iis6VirtualDirectory</td>
</tr>
</tbody>
</table>

**Top**

### Methods

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Dispose]</td>
<td>Dispose</td>
</tr>
</tbody>
</table>

**Top**

### Properties
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AppPool</strong></td>
<td>Sets the AppPool to run in. Default is 'DefaultAppPool'</td>
</tr>
<tr>
<td><strong>DirectoryType</strong></td>
<td>Sets the DirectoryType. Supports IIsWebDirectory and IIsWebVirtualDir. Default is IIsWebVirtualDir.</td>
</tr>
<tr>
<td><strong>Exists</strong></td>
<td>Gets whether the Virtual Directory exists</td>
</tr>
<tr>
<td><strong>Name</strong></td>
<td>Sets the name of the Virtual Directory. Defaults to 'ROOT'</td>
</tr>
<tr>
<td><strong>Parent</strong></td>
<td>Sets the Parent. Defaults to /ROOT</td>
</tr>
<tr>
<td><strong>Properties</strong></td>
<td>Sets the Properties. Use a semi-colon delimiter. See Metabase Property Reference (IIS 6.0) If a property contains =, enter #~# as a special sequence which will be replaced with = during processing</td>
</tr>
<tr>
<td><strong>RequireApplication</strong></td>
<td>Sets whether an Application is required. Defaults to true.</td>
</tr>
<tr>
<td><strong>Website</strong></td>
<td>Sets the name of the Website to add the Virtual Directory to.</td>
</tr>
</tbody>
</table>

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"
  PropertyGroup>
  <TPath>$(MSBuildProjectDirectory)\..\MSBuild.ExtensionPack.tasks</TPath>
  <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks')"/>
</PropertyGroup>
<Import Project="$(TPath)"/>
<Target Name="Default">
  <!-- Create an IIsWebVirtualDir at the ROOT of the website -->
  <!-- Check if a virtual directory exists-->
    <Output TaskParameter="Exists" PropertyName="CheckExists"/>
  <!-- Create another IIsWebVirtualDir -->
  <!-- Delete the IIsWebVirtualDir-->
</Target>
</Project>
```
See Also

Reference
MSBuild.ExtensionPack.Web Namespace

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Iis6VirtualDirectory Constructor

Namespace: MSBuild.ExtensionPack.Web
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Iis6VirtualDirectory Class
MSBuild.ExtensionPack.Web Namespace

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**Methods**

The `Iis6VirtualDirectory` type exposes the following members.

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispose</td>
<td></td>
</tr>
</tbody>
</table>

**See Also**

Reference

- `Iis6VirtualDirectory Class`
- `MSBuild.ExtensionPack.Web Namespace`

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See Also

Reference

Iis6VirtualDirectory Class
MSBuild.ExtensionPack.Web Namespace

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The **Iis6VirtualDirectory** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AppPool</td>
<td>Sets the AppPool to run in. Default is 'DefaultAppPool'</td>
</tr>
<tr>
<td>DirectoryType</td>
<td>Sets the DirectoryType. Supports IIsWebDirectory and IIsWebVirtualDir. Default is IIsWebVirtualDir.</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the Virtual Directory exists</td>
</tr>
<tr>
<td>Name</td>
<td>Sets the name of the Virtual Directory. Defaults to 'ROOT'</td>
</tr>
<tr>
<td>Parent</td>
<td>Sets the Parent. Defaults to /ROOT</td>
</tr>
<tr>
<td>Properties</td>
<td>Sets the Properties. Use a semi-colon delimiter. See <a href="Metabase%20Property%20Reference%20(IIS%206.0)">Metabase Property Reference (IIS 6.0)</a> If a property contains =, enter #~# as a special sequence which will be replaced with = during processing</td>
</tr>
<tr>
<td>RequireApplication</td>
<td>Sets whether an Application is required. Defaults to true.</td>
</tr>
<tr>
<td>Website</td>
<td>Sets the name of the Website to add the Virtual Directory to.</td>
</tr>
</tbody>
</table>

---

**See Also**

**Reference**

- **Iis6VirtualDirectory Class**
- **MSBuild.ExtensionPack.Web Namespace**

---

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Iis6VirtualDirectoryAppPool Property

Sets the AppPool to run in. Default is 'DefaultAppPool'

**Namespace:** MSBuild.ExtensionPack.Web

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

Iis6VirtualDirectory Class

MSBuild.ExtensionPack.Web Namespace

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**Iis6VirtualDirectory.DirectoryType** MSBuild Extension Pack Help 4.0.12.0

Sets the DirectoryType. Supports IIsWebDirectory and IIsWebVirtualDir. Default is IIsWebVirtualDir.

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

---

**See Also**

Reference

Iis6VirtualDirectory Class  
MSBuild.ExtensionPack.Web Namespace

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Iis6VirtualDirectoryExists Property

Gets whether the Virtual Directory exists

Namespace: MSBuild.ExtensionPack.Web
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Iis6VirtualDirectory Class
MSBuild.ExtensionPack.Web Namespace

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Iis6VirtualDirectoryName Property

Sets the name of the Virtual Directory. Defaults to 'ROOT'

Namespace: MSBuild.ExtensionPack.Web
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Iis6VirtualDirectory Class
MSBuild.ExtensionPack.Web Namespace

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Iis6VirtualDirectoryParent Property

Sets the Parent. Defaults to /ROOT

Namespace: MSBuild.ExtensionPack.Web
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Iis6VirtualDirectory Class
MSBuild.ExtensionPack.Web Namespace

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Iis6VirtualDirectoryProperties  MSBuild Extension Pack Help  4.0.12.0

Property

Sets the Properties. Use a semi-colon delimiter. See Metabase Property Reference (IIS 6.0) If a property contains =, enter #~# as a special sequence which will be replaced with = during processing

Namespace: MSBuild.ExtensionPack.Web
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also
Reference
Iis6VirtualDirectory Class
MSBuild.ExtensionPack.Web Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
Iis6VirtualDirectoryRequireApplication Property

Sets whether an Application is required. Defaults to true.

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

### See Also

See Also

See Also

Reference

See Also

See Also

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Iis6VirtualDirectoryWebsite Property

Sets the name of the Website to add the Virtual Directory to.

Namespace: MSBuild.ExtensionPack.Web
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Iis6VirtualDirectory Class
MSBuild.ExtensionPack.Web Namespace

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**IIs6Website Class**

**Valid TaskActions are:**

*Create* (**Required**: Name **Optional**: Force, Properties, Identifier **OutPut**: Identifier)

*CheckExists* (**Required**: Name **Output**: Exists)

*Continue* (**Required**: Name)

*Delete* (**Required**: Name)

*GetMetabasePropertyValue* (**Required**: Name, MetabasePropertyName **Output**: MetabasePropertyValue)

*Start* (**Required**: Name)

*Stop* (**Required**: Name)

*Pause* (**Required**: Name)

**Remote Execution Support:** Yes. Please note that the machine you execute from must have IIS installed.

**Inheritance Hierarchy**

|--------------|--------------------------------|--------------------------------|-------------------------------------|

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

The **Iis6Website** type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iis6Website</td>
<td></td>
</tr>
</tbody>
</table>

*Top*
## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exists</td>
<td>Gets whether the website exists.</td>
</tr>
<tr>
<td>Force</td>
<td>Set force to true to delete an existing website when calling Create. Default is false.</td>
</tr>
<tr>
<td>Identifier</td>
<td>Gets or sets the Identifier for the website. If specified for Create and the Identifier already exists, an error is logged.</td>
</tr>
<tr>
<td>MetabasePropertyName</td>
<td>Sets the Metabase Property Name to retrieve. See Metabase Property Reference (IIS 6.0)</td>
</tr>
<tr>
<td>MetabasePropertyValue</td>
<td>Gets the string value of the requested MetabasePropertyName</td>
</tr>
<tr>
<td>Name</td>
<td>Gets or sets the name.</td>
</tr>
</tbody>
</table>
| Properties         | Sets the Properties. Use a semi-colon delimiter. See Metabase Property Reference (IIS 6.0)  
Some properties may be split within the semi colon, e.g. to set multiple server bindings you could use  
Properties="ServerBindings=:80:first.host.header|:80:second.host.header"  
If a property contains =, enter %# as a special sequence which will be replaced with = during processing |
| Sleep              | Set the sleep time in ms for when calling Start, Stop, Pause or Continue. Default is 250ms. |

## Examples

```
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild</TPath>
    <TPath Condition="Exists($(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks)" />
  </PropertyGroup>
  <Import Project="$($(TPath)\Common\MSBuild.ExtensionPack.tasks)" />
  <Target Name="Default">
    <!-- Create a website -->
    <MSBuild.ExtensionPack.Web.Iis6Website TargetAction="Create" />
    <!-- Pause a website -->
    <MSBuild.ExtensionPack.Web.Iis6Website TargetAction="Pause" />
    <!-- Stop a website -->
  </Target>
</Project>
```
<MSBuild.ExtensionPack.Web.Iis6Website TaskAction>
 <!-- GetMetabasePropertyValue -->
<MSBuild.ExtensionPack.Web.Iis6Website TaskAction>
 <Output PropertyName="WebsiteState"/>
<MSBuild.ExtensionPack.Web.Iis6Website TaskAction>
 <Message Text="WebsiteState: $(ServerState)"
 <!-- Start a website -->
<MSBuild.ExtensionPack.Web.Iis6Website TaskAction>
 <!-- Check whether a website exists -->
<MSBuild.ExtensionPack.Web.Iis6Website TaskAction>
 <Output PropertyName="SiteExists"/>
<MSBuild.ExtensionPack.Web.Iis6Website TaskAction>
 <Message Text="Website Exists: $(SiteExists)"
 <!-- Check whether a website exists -->
<MSBuild.ExtensionPack.Web.Iis6Website TaskAction>
 <Output PropertyName="SiteExists"/>
<MSBuild.ExtensionPack.Web.Iis6Website TaskAction>
 <Message Text="Website Exists: $(SiteExists)"
</Target>
</Project>

See Also
Reference
MSBuild.ExtensionPack.Web Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**Iis6Website Constructor**  MSBuild Extension Pack Help 4.0.12.0

**Namespace:** MSBuild.ExtensionPack.Web
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  Version: 4.0.0.0

**See Also**

Reference

Iis6Website Class
MSBuild.ExtensionPack.Web Namespace

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The **Iis6Website** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exists</td>
<td>Gets whether the website exists.</td>
</tr>
<tr>
<td>Force</td>
<td>Set force to true to delete an existing website when calling Create. Default is false.</td>
</tr>
<tr>
<td>Identifier</td>
<td>Gets or sets the Identifier for the website. If specified for Create and the Identifier already exists, an error is logged.</td>
</tr>
<tr>
<td>MetabasePropertyName</td>
<td>Sets the Metabase Property Name to retrieve. See <a href="http://www.MSBuildExtensionPack.com">Metabase Property Reference (IIS 6.0)</a></td>
</tr>
<tr>
<td>MetabasePropertyValue</td>
<td>Gets the string value of the requested MetabasePropertyName</td>
</tr>
<tr>
<td>Name</td>
<td>Gets or sets the name.</td>
</tr>
<tr>
<td></td>
<td>Some properties may be split within the semi colon, e.g. to set multiple server bindings you could use Properties=&quot;ServerBindings=:80:first.host.header</td>
</tr>
<tr>
<td>Sleep</td>
<td>Set the sleep time in ms for when calling Start, Stop, Pause or Continue. Default is 250ms.</td>
</tr>
</tbody>
</table>

**Top**

### See Also

**Reference**

- [Iis6Website Class](http://www.MSBuildExtensionPack.com)

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Send comments on this topic to MSBuild ExtensionPack Feedback
Iis6WebsiteExists Property

Gets whether the website exists.

Namespace: MSBuild.ExtensionPack.Web
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Iis6Website Class
MSBuild.ExtensionPack.Web Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
<table>
<thead>
<tr>
<th><strong>Iis6WebsiteForce</strong> Property</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Set force to true to delete an existing website when calling Create. Default is false.</td>
<td></td>
</tr>
</tbody>
</table>

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

- Reference  
  - Iis6Website Class  
  - MSBuild.ExtensionPack.Web Namespace  

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**Iis6WebsiteIdentifier**

**Property**

Gets or sets the Identifier for the website. If specified for Create and the Identifier already exists, an error is logged.

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

[Reference](#)  
**Iis6Website Class**  
**MSBuild.ExtensionPack.Web Namespace**

---

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**Iis6WebsiteMetabasePropertyName Property**

Sets the Metabase Property Name to retrieve. See [Metabase Property Reference (IIS 6.0)](http://www.MSBuildExtensionPack.com).

**Namespace:** `MSBuild.ExtensionPack.Web`  
**Assembly:** `MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)`  
**Version:** `4.0.0.0`

**See Also**

- [Iis6Website Class](http://www.MSBuildExtensionPack.com)
## Iis6WebsiteMetabasePropertyValue Property

Gets the string value of the requested MetabasePropertyName

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

### See Also

**Reference**

- Iis6Website Class
- MSBuild.ExtensionPack.Web Namespace

---

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Iis6WebsiteName Property

Gets or sets the name.

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also

Reference

Iis6Website Class
MSBuild.ExtensionPack.Web Namespace

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**Iis6WebsiteProperties**

**Property**

Sets the Properties. Use a semi-colon delimiter. See [Metabase Property Reference (IIS 6.0)](#)

Some properties may be split within the semi colon, e.g. to set multiple server bindings you could use

```
Properties="ServerBindings=:80:first.host.header|:80:second.host.header"
```

If a property contains =, enter #~# as a special sequence which will be replaced with = during processing

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

[Reference](#)

**Iis6Website Class**  
**MSBuild.ExtensionPack.Web Namespace**

---

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Iis6WebsiteSleep Property

Set the sleep time in ms for when calling Start, Stop, Pause or Continue. Default is 250ms.

Namespace: MSBuild.ExtensionPack.Web
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
Iis6Website Class
MSBuild.ExtensionPack.Web Namespace

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Iis7Application Class

Valid TaskActions are:

* CheckExists (Required: Website, Applications Output: Exists)
* Delete (Required: Website, Applications)
* Remote Execution Support: Yes

Inheritance Hierarchy


Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

The Iis7Application type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Constructor" /></td>
<td>Iis7Application</td>
</tr>
</tbody>
</table>

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Property" /></td>
<td>Applications (ITaskItem of Applications)</td>
</tr>
<tr>
<td><img src="image" alt="Property" /></td>
<td>Exists (Gets whether the application exists)</td>
</tr>
<tr>
<td><img src="image" alt="Property" /></td>
<td>Website (Sets the name of the Website)</td>
</tr>
</tbody>
</table>

Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"/>
```
<PropertyGroup>
  <TPath>$(MSBuildProjectDirectory)\.\.\MSBuild.ExtensionPack.tasks</TPath>
</PropertyGroup>

<Import Project="$(TPath)"/>

<ItemGroup>
  <Application Include="/photos"/>
  <Application Include="/photos2"/>
</ItemGroup>

<Target Name="Default">
  <!-- Delete Applications -->
  <MSBuild.ExtensionPack.Web.Iis7Application />
  <!-- Check whether applications exist -->
  <MSBuild.ExtensionPack.Web.Iis7Application>
    <Output TaskParameter="Exists" PropertyName="/photos"/>
    <Message Text="photos Exists: $(AppExists)"/>
  </MSBuild.ExtensionPack.Web.Iis7Application>
  <MSBuild.ExtensionPack.Web.Iis7Application>
    <Output TaskParameter="Exists" PropertyName="/photos2"/>
    <Message Text="photos2 Exists: $(AppExists)"/>
  </MSBuild.ExtensionPack.Web.Iis7Application>
</Target>
</Project>
Iis7Application Constructor

Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

See Also

Reference
Iis7Application Class
MSBuild.ExtensionPack.Web Namespace

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Iis7Application Properties

The Iis7Application type exposes the following members.

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications</td>
<td>ITaskItem of Applications</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the application exists</td>
</tr>
<tr>
<td>Website</td>
<td>Sets the name of the Website</td>
</tr>
</tbody>
</table>

See Also

Iis7Application Class
MSBuild.ExtensionPack.Web Namespace

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**Iis7ApplicationApplications Property**

ITaskItem of Applications

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**
  - Iis7Application Class  
  - MSBuild.ExtensionPack.Web Namespace

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<table>
<thead>
<tr>
<th><strong>Iis7ApplicationExists</strong></th>
<th><strong>Property</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Gets whether the application exists</td>
<td></td>
</tr>
<tr>
<td><strong>Namespace:</strong></td>
<td>MSBuild.ExtensionPack.Web</td>
</tr>
<tr>
<td><strong>Assembly:</strong></td>
<td>MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)</td>
</tr>
<tr>
<td><strong>Version:</strong></td>
<td>4.0.0.0</td>
</tr>
</tbody>
</table>

**See Also**

**Reference**

Iis7Application Class

MSBuild.ExtensionPack.Web Namespace

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Iis7ApplicationWebsite Property

Sets the name of the Website

Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

See Also

Reference
Iis7Application Class
MSBuild.ExtensionPack.Web Namespace

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**Iis7AppPool Class**

**Valid TaskActions are:**

*CheckExists* *(Required: Name **Output**: Exists)*

*Create* *(Required: Name **Optional**: Force, IdentityType, UseDefaultIdentity, PoolIdentity, IdentityPassword, ManagedRuntimeVersion, AutoStart, Enable32BitAppOnWin64, PipelineMode, QueueLength, IdleTimeout, PeriodicRestartPrivateMemory, PeriodicRestartTime, MaxProcesses, RecycleRequests, RecycleInterval, RecycleTimes, RapidFailProtection, LoadUserProfile)*

*Delete* *(Required: Name)*

*GetInfo* *(Required: Name)*

*Modify* *(Required: Name **Optional**: Force, ManagedRuntimeVersion, AutoStart, Enable32BitAppOnWin64, QueueLength, IdleTimeout, PeriodicRestartPrivateMemory, PeriodicRestartTime, MaxProcesses, RecycleRequests, RecycleInterval, RecycleTimes, RapidFailProtection, LoadUserProfile)*

*Recycle* *(Required: Name)*

*SetIdentity* *(Optional: UseDefaultIdentity, IdentityType, PoolIdentity, IdentityPassword)*

*SetPipelineMode* *(Optional: PipelineMode)*

*Start* *(Required: Name **Optional**: RetryCount)*

*Stop* *(Required: Name)*

**Remote Execution Support**: Yes

**Inheritance Hierarchy**

*SystemObject* → *Microsoft.Build.UtilitiesTask* → *MSBuild.ExtensionPackBaseTask* → *MSBuild.ExtensionPack.WebIis7AppPool*

**Namespace**: MSBuild.ExtensionPack.Web

**Assembly**: MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)
Version: 4.0.0.0

The **Iis7AppPool** type exposes the following members.

## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![icon] Iis7AppPool</td>
<td></td>
</tr>
</tbody>
</table>

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![icon] AppPoolInfo</td>
<td>Gets the AppPoolInfo Item. Identity = Name, MetaData = ApplicationPoolName, PhysicalPath, Id, State</td>
</tr>
<tr>
<td>![icon] AutoStart</td>
<td>Set whether the application pool should start automatically. Default is true.</td>
</tr>
<tr>
<td>![icon] Enable32BitAppOnWin64</td>
<td>Sets whether 32-bit applications are enabled on 64-bit processors. Default is false.</td>
</tr>
<tr>
<td>![icon] Exists</td>
<td>Gets whether the Application Pool exists</td>
</tr>
<tr>
<td>![icon] Force</td>
<td>Set to true to force the creation of a website, even if it exists.</td>
</tr>
<tr>
<td>![icon] IdentityPassword</td>
<td>Sets the password associated with the PoolIdentity property.</td>
</tr>
<tr>
<td>![icon] IdentityType</td>
<td>Sets the ProcessModelIdentityType. Default is LocalService unless UseDefaultIdentity is specified</td>
</tr>
<tr>
<td>![icon] IdleTimeout</td>
<td>Sets a TimeSpan value in minutes for the period of time a process should remain idle. Set &gt; 0 to use. Set to -1 to restore the Application Pool Default.</td>
</tr>
<tr>
<td>![icon] LoadUserProfile</td>
<td>Sets the LoadUserProfile property. Default is false.</td>
</tr>
<tr>
<td>![icon] ManagedRuntimeVersion</td>
<td>Sets the version number of the .NET Framework used by the application pool. Default is &quot;v2.0&quot;.</td>
</tr>
<tr>
<td>![icon] MaxProcesses</td>
<td>Sets the maximum number of worker processes allowed for the AppPool. Set to -1 to restore the Application Pool Default.</td>
</tr>
<tr>
<td>![icon] Name</td>
<td>Sets the name of the AppPool</td>
</tr>
<tr>
<td>![icon] PeriodicRestartPrivateMemory</td>
<td>Sets the private memory (kb) a process can use before the process is recycled. Default is 0. Set &gt; 0 to use. Set to -1 to restore the Application Pool Default.</td>
</tr>
<tr>
<td>![icon] PeriodicRestartTime</td>
<td>Sets a TimeSpan value in minutes for the period of time that</td>
</tr>
</tbody>
</table>
Examples should elapse before a worker process is recycled. Default is 29 hours. Set > 0 to use. Set to -1 to restore the Application Pool Default for Modify or -1 to Disable Recycling. PeriodicRestartTime for Create

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PipelineMode</td>
<td>Sets the ManagedPipelineMode. Default is ManagedPipelineMode.Integrated.</td>
</tr>
<tr>
<td>PoolIdentity</td>
<td>Sets the user name associated with the security identity under which the application pool runs.</td>
</tr>
<tr>
<td>QueueLength</td>
<td>Sets the maximum number of requests to queue before rejecting additional requests. Default is 0. Set &gt; 0 to use. Set to -1 to restore the Application Pool Default.</td>
</tr>
<tr>
<td>RapidFailProtection</td>
<td>Sets the RapidFailProtection. Default is true</td>
</tr>
<tr>
<td>RecycleInterval</td>
<td>Sets the RecycleInterval in minutes for the application pool. Set to -1 to restore the Application Pool Default.</td>
</tr>
<tr>
<td>RecycleRequests</td>
<td>Sets the fixed number of requests to recycle the application pool. Set to -1 to restore the Application Pool Default.</td>
</tr>
<tr>
<td>RecycleTimes</td>
<td>Sets the times that the application pool should recycle. Format is 'hh:mm,hh:mm,hh:mm'. Set to &quot;-1&quot; to clear the RecycleTimes.</td>
</tr>
<tr>
<td>RetryCount</td>
<td>Sets a value indicating how many times to retry starting or stopping an application pool, e.g. if the pool needs time to stop. Default is 5. The retry occurs every 1 seconds.</td>
</tr>
<tr>
<td>UseDefaultIdentity</td>
<td>Sets whether to use the default settings for ProcessModel Identity that have been defined in IIS for an AppPool. Default is false.</td>
</tr>
</tbody>
</table>

Top

Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks')">$(TPath)/</TPath>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- Create an AppPool -->
    <!-- Modify an AppPool -->
```
```
<!-- Set the PipelineMode in the AppPool -->
<MSBuild.ExtensionPack.Web.Iis7AppPool TaskA>
<!-- Set the Identity for the AppPool -->
<MSBuild.ExtensionPack.Web.Iis7AppPool TaskA>
</Target>
</Project>

See Also

Reference

MSBuild.ExtensionPack.Web Namespace

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**Iis7AppPool Constructor**  MSBuild Extension Pack Help 4.0.12.0

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**

Iis7AppPool Class  
MSBuild.ExtensionPack.Web Namespace

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The **Iis7AppPool** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AppPoolInfo</td>
<td>Gets the AppPoolInfo Item. Identity = Name, MetaData = ApplicationPoolName, PhysicalPath, Id, State</td>
</tr>
<tr>
<td>AutoStart</td>
<td>Set whether the application pool should start automatically. Default is true.</td>
</tr>
<tr>
<td>Enable32BitAppOnWin64</td>
<td>Sets whether 32-bit applications are enabled on 64-bit processors. Default is false.</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the Application Pool exists</td>
</tr>
<tr>
<td>Force</td>
<td>Set to true to force the creation of a website, even if it exists.</td>
</tr>
<tr>
<td>IdentityPassword</td>
<td>Sets the password associated with the PoolIdentity property.</td>
</tr>
<tr>
<td>IdentityType</td>
<td>Sets the ProcessModelIdentityType. Default is LocalService unless UseDefaultIdentity is specified</td>
</tr>
<tr>
<td>IdleTimeout</td>
<td>Sets a TimeSpan value in minutes for the period of time a process should remain idle. Set &gt; 0 to use. Set to -1 to restore the Application Pool Default.</td>
</tr>
<tr>
<td>LoadUserProfile</td>
<td>Sets the LoadUserProfile property. Default is false.</td>
</tr>
<tr>
<td>ManagedRuntimeVersion</td>
<td>Sets the version number of the .NET Framework used by the application pool. Default is &quot;v2.0&quot;.</td>
</tr>
<tr>
<td>MaxProcesses</td>
<td>Sets the maximum number of worker processes allowed for the AppPool. Set to -1 to restore the Application Pool Default.</td>
</tr>
<tr>
<td>Name</td>
<td>Sets the name of the AppPool</td>
</tr>
<tr>
<td>PeriodicRestartPrivateMemory</td>
<td>Sets the private memory (kb) a process can use before the process is recycled. Default is 0. Set &gt; 0 to use. Set to -1 to restore the Application Pool Default.</td>
</tr>
<tr>
<td>PeriodicRestartTime</td>
<td>Sets a TimeSpan value in minutes for the period of time that should elapse before a worker process is recycled. Default is 29 hours. Set &gt; 0 to use. Set to -1 to restore the Application Pool Default for Modify or -1 to Disable Recycling.PeriodicRestartTime for Create</td>
</tr>
<tr>
<td>PipelineMode</td>
<td>Sets the ManagedPipelineMode. Default is ManagedPipelineMode.Integrated.</td>
</tr>
<tr>
<td>Property</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>PoolIdentity</td>
<td>Sets the user name associated with the security identity under which the application pool runs.</td>
</tr>
<tr>
<td>QueueLength</td>
<td>Sets the maximum number of requests to queue before rejecting additional requests. Default is 0. Set &gt; 0 to use. Set to -1 to restore the Application Pool Default.</td>
</tr>
<tr>
<td>RapidFailProtection</td>
<td>Sets the RapidFailProtection. Default is true</td>
</tr>
<tr>
<td>RecycleInterval</td>
<td>Sets the RecycleInterval in minutes for the application pool. Set to -1 to restore the Application Pool Default.</td>
</tr>
<tr>
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</tr>
<tr>
<td>RecycleTimes</td>
<td>Sets the times that the application pool should recycle. Format is 'hh:mm, hh:mm, hh:mm'. Set to &quot;-1&quot; to clear the RecycleTimes.</td>
</tr>
<tr>
<td>RetryCount</td>
<td>Sets a value indicating how many times to retry starting or stopping an application pool, e.g. if the pool needs time to stop. Default is 5. The retry occurs every 1 seconds.</td>
</tr>
<tr>
<td>UseDefaultIdentity</td>
<td>Sets whether to use the default settings for ProcessModel Identity that have been defined in IIS for an AppPool. Default is false.</td>
</tr>
</tbody>
</table>

**See Also**

Reference

Iis7AppPool Class

MSBuild.ExtensionPack.Web Namespace

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**Iis7AppPoolAppPoolInfo Property**

Gets the AppPoolInfo Item. Identity = Name, MetaData = ApplicationPoolName, PhysicalPath, Id, State

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**

Iis7AppPool Class  
MSBuild.ExtensionPack.Web Namespace

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**Iis7AppPoolAutoStart Property**

Set whether the application pool should start automatically. Default is true.

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
Iis7AppPool Class  
MSBuild.ExtensionPack.Web Namespace

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Iis7AppPoolEnable32BitAppOnWin64 Property

Sets whether 32-bit applications are enabled on 64-bit processors. Default is false.

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

See Also

Reference
- Iis7AppPool Class
- MSBuild.ExtensionPack.Web Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
Iis7AppPoolExists Property

Gets whether the Application Pool exists

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
Iis7AppPool Class  
MSBuild.ExtensionPack.Web Namespace

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**Iis7AppPoolForce Property**

Set to true to force the creation of a website, even if it exists.

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
Iis7AppPool Class  
MSBuild.ExtensionPack.Web Namespace

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Iis7AppPoolIdentityPassword Property

Sets the password associated with the PoolIdentity property.

Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

See Also

Reference

Iis7AppPool Class
MSBuild.ExtensionPack.Web Namespace
**Iis7AppPoolIdentityType Property**

Sets the ProcessModelIdentityType. Default is LocalService unless UseDefaultIdentity is specified

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

---

**See Also**

Reference

- **Iis7AppPool Class**
- **MSBuild.ExtensionPack.Web Namespace**

---

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Iis7AppPoolIdleTimeout Property

Sets a TimeSpan value in minutes for the period of time a process should remain idle. Set > 0 to use. Set to -1 to restore the Application Pool Default.

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

Iis7AppPool Class  
MSBuild.ExtensionPack.Web Namespace

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Iis7AppPoolLoadUserProfile Property

Sets the LoadUserProfile property. Default is false.

**Namespace:** MSBuild.ExtensionPack.Web

**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)

**Version:** 4.0.0.0

**See Also**

- Iis7AppPool Class
- MSBuild.ExtensionPack.Web Namespace
**Iis7AppPoolManagedRuntimeVersion**

Sets the version number of the .NET Framework used by the application pool. Default is "v2.0".

**Namespace:** MSBuild.ExtensionPack.Web

**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)

**Version:** 4.0.0.0

---

**See Also**

Reference

Iis7AppPool Class

MSBuild.ExtensionPack.Web Namespace

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**Iis7AppPoolMaxProcesses Property**

Sets the maximum number of worker processes allowed for the AppPool. Set to -1 to restore the Application Pool Default.

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

Iis7AppPool Class  
MSBuild.ExtensionPack.Web Namespace

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**Iis7AppPoolName**

**Property**

Sets the name of the AppPool

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

Iis7AppPool Class  
MSBuild.ExtensionPack.Web Namespace

---

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Iis7AppPoolPeriodicRestartPrivateMemory Property

Sets the private memory (kb) a process can use before the process is recycled. Default is 0. Set > 0 to use. Set to -1 to restore the Application Pool Default.

Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

See Also

Reference

Iis7AppPool Class
MSBuild.ExtensionPack.Web Namespace

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Iis7AppPoolPeriodicRestartTime Property

Sets a TimeSpan value in minutes for the period of time that should elapse before a worker process is recycled. Default is 29 hours. Set > 0 to use. Set to -1 to restore the Application Pool Default for Modify or -1 to Disable Recycling.PeriodicRestartTime for Create

Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

See Also

Reference

Iis7AppPool Class
MSBuild.ExtensionPack.Web Namespace

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Iis7AppPoolPipelineMode Property

Sets the ManagedPipelineMode. Default is ManagedPipelineMode.Integrated.

Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

See Also

Reference
Iis7AppPool Class
MSBuild.ExtensionPack.Web Namespace

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**Iis7AppPoolPoolIdentity Property**

Sets the user name associated with the security identity under which the application pool runs.

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

*Iis7AppPool Class*  
*MSBuild.ExtensionPack.Web Namespace*

---

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Iis7AppPoolQueueLength Property

Sets the maximum number of requests to queue before rejecting additional requests. Default is 0. Set > 0 to use. Set to -1 to restore the Application Pool Default.

Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

See Also
Reference
Iis7AppPool Class
MSBuild.ExtensionPack.Web Namespace

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Iis7AppPoolRapidFailProtection Property

Sets the RapidFailProtection. Default is true

Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

See Also

Reference
Iis7AppPool Class
MSBuild.ExtensionPack.Web Namespace

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Iis7AppPoolRecycleInterval Property

Sets the RecycleInterval in minutes for the application pool. Set to -1 to restore the Application Pool Default.

Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

See Also

Reference

Iis7AppPool Class
MSBuild.ExtensionPack.Web Namespace

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Iis7AppPoolRecycleRequests property

Sets the fixed number of requests to recycle the application pool. Set to -1 to restore the Application Pool Default.

Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

See Also

Reference
Iis7AppPool Class
MSBuild.ExtensionPack.Web Namespace

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**Iis7AppPoolRecycleTimes**

**Property**

Sets the times that the application pool should recycle. Format is 'hh:mm, hh:mm, hh:mm'. Set to "-1" to clear the RecycleTimes

**Namespace**: MSBuild.ExtensionPack.Web  
**Assembly**: MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version**: 4.0.0.0

**See Also**

Reference

Iis7AppPool Class  
MSBuild.ExtensionPack.Web Namespace

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Iis7AppPoolRetryCount Property

Sets a value indicating how many times to retry starting or stopping an application pool, e.g. if the pool needs time to stop. Default is 5. The retry occurs every 1 seconds.

Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

See Also

Reference
Iis7AppPool Class
MSBuild.ExtensionPack.Web Namespace

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Iis7AppPoolUseDefaultIdentity Property

Sets whether to use the default settings for ProcessModel Identity that have been defined in IIS for an AppPool. Default is false.

Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

See Also

Reference
Iis7AppPool Class
MSBuild.ExtensionPack.Web Namespace

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**Iis7Binding Class**  
MSBuild Extension Pack Help 4.0.12.0

**Valid TaskActions are:**

*Add (Required: Name, BindingInformation or (CertificateHash and CertificateStoreName)  **Optional:** BindingProtocol)*

*CheckExists (Required: Name, BindingInformation  **Optional:** BindingProtocol  **Output:** Exists, BindingProtocol)*

*Modify (Required: Name, BindingInformation, PreviousBindingProtocol, PreviousBindingInformation)*

*Remove (Required: Name  **Optional:** BindingProtocol)*

**Remote Execution Support:** Yes

**Inheritance Hierarchy**

SystemObject  Microsoft.Build.UtilitiesTask  
  MSBuild.ExtensionPackBaseTask  
  MSBuild.ExtensionPack.WebIis7Binding

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

The **Iis7Binding** type exposes the following members.

**Constructors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![ ]</td>
<td>Iis7Binding</td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
</table>
| ![ ] BindingInformation | String containing binding information.  
  Format: ip address:port:hostheader  
  Example: *:80:sample.example.com or : *:443: |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CertificateHash</strong></td>
<td>If HTTPS is used, this is the certificate hash. This is the value of &quot;thumbprint&quot; value of the certificate you want to use. Format: hash encoded string. Hex symbols can be space or dash separated. Example: 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a</td>
</tr>
<tr>
<td><strong>CertificateStoreName</strong></td>
<td>The name of the certificate store. Default is &quot;MY&quot; for the personal store</td>
</tr>
<tr>
<td><strong>Exists</strong></td>
<td>Gets whether the binding exists</td>
</tr>
<tr>
<td><strong>Name</strong></td>
<td>Sets the name of the Website</td>
</tr>
<tr>
<td><strong>Port</strong></td>
<td>Sets the port of the Binding to Modify</td>
</tr>
<tr>
<td><strong>PreviousBindingInformation</strong></td>
<td>Sets the PreviousBindingInformation to use when calling Modify</td>
</tr>
<tr>
<td><strong>PreviousBindingProtocol</strong></td>
<td>Sets the PreviousBindingProtocol to use when calling Modify</td>
</tr>
</tbody>
</table>

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\..\MSBuild</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\..\Common\MSBuild.ExtensionPack.tasks')"></TPath>
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <!-- Add a binding -->
    <MSBuild.ExtensionPack.Web.Iis7Binding TaskA>
    <!-- Check whether a binding exists--> 
    <MSBuild.ExtensionPack.Web.Iis7Binding TaskA>
      <Output TaskParameter="Exists" PropertyName="$(DoesExist)"/>
    </MSBuild.ExtensionPack.Web.Iis7Binding>
    <!-- Add another binding -->
    <MSBuild.ExtensionPack.Web.Iis7Binding TaskA>
  </Target>
</Project>
```
See Also

Reference
MSBuild.ExtensionPack.Web Namespace

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**Iis7Binding Constructor**  MSBuild Extension Pack Help 4.0.12.0

**Namespace:**  MSBuild.ExtensionPack.Web  
**Assembly:**  MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:**  4.0.0.0

**See Also**

- Reference
  - Iis7Binding Class
  - MSBuild.ExtensionPack.Web Namespace

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The **Iis7Binding** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BindingInformation</strong></td>
<td>String containing binding information. Format: ip address:port:hostheader</td>
</tr>
<tr>
<td></td>
<td>Example: *:80:sample.example.com or *:443:</td>
</tr>
<tr>
<td><strong>CertificateHash</strong></td>
<td>If HTTPS is used, this is the certificate hash. This is the value of &quot;thumbprint&quot; value of the certificate you want to use. Format: hash encoded string. Hex symbols can be space or dash separated. Example: 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a</td>
</tr>
<tr>
<td><strong>CertificateStoreName</strong></td>
<td>The name of the certificate store. Default is &quot;MY&quot; for the personal store</td>
</tr>
<tr>
<td><strong>Exists</strong></td>
<td>Gets whether the binding exists</td>
</tr>
<tr>
<td><strong>Name</strong></td>
<td>Sets the name of the Website</td>
</tr>
<tr>
<td><strong>Port</strong></td>
<td>Sets the port of the Binding to Modify</td>
</tr>
<tr>
<td><strong>PreviousBindingInformation</strong></td>
<td>Sets the PreviousBindingInformation to use when calling Modify</td>
</tr>
<tr>
<td><strong>PreviousBindingProtocol</strong></td>
<td>Sets the PreviousBindingProtocol to use when calling Modify</td>
</tr>
</tbody>
</table>

## See Also

**Reference**

- **Iis7Binding Class**
- **MSBuild.ExtensionPack.Web Namespace**

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Iis7Binding Binding Information Property

String containing binding information.

Format: ip address:port:hostheader

Example: *:80:sample.example.com or *:443:

Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

See Also

Reference
Iis7Binding Class
MSBuild.ExtensionPack.Web Namespace

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Iis7BindingBindingProtocol

Property


Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

See Also

Reference
Iis7Binding Class
MSBuild.ExtensionPack.Web Namespace

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Iis7BindingCertificateHash Property

If HTTPS is used, this is the certificate hash. This is the value of "thumbprint" value of the certificate you want to use.

Format: hash encoded string. Hex symbols can be space or dash separated.

Example: 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a 0a

Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

See Also
Reference
Iis7Binding Class
MSBuild.ExtensionPack.Web Namespace

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**Iis7BindingCertificateStoreName**

The name of the certificate store. Default is "MY" for the personal store

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**

*Iis7Binding Class*  
MSBuild.ExtensionPack.Web Namespace

---

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**Iis7BindingExists**

**Property**

Gets whether the binding exists

**Namespace:** MSBuild.ExtensionPack.Web

**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)

**Version:** 4.0.0.0

**See Also**

Reference

Iis7Binding Class

MSBuild.ExtensionPack.Web Namespace

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**Iis7BindingName**

**Property**

Sets the name of the Website

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
Iis7Binding Class  
MSBuild.ExtensionPack.Web Namespace

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**Iis7BindingPort Property**  MSBuild Extension Pack Help 4.0.12.0

Sets the port of the Binding to Modify

**Namespace:**  MSBuild.ExtensionPack.Web  
**Assembly:**  MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:**  4.0.0.0

---

**See Also**

Reference

Iis7Binding Class  
MSBuild.ExtensionPack.Web Namespace

---

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Iis7BindingPreviousBindingInformation Property

Sets the PreviousBindingInformation to use when calling Modify

Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

See Also

Reference

Iis7Binding Class
MSBuild.ExtensionPack.Web Namespace

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Iis7BindingPreviousBindingProtocol Property

Sets the PreviousBindingProtocol to use when calling Modify

Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

See Also

Reference
Iis7Binding Class
MSBuild.ExtensionPack.Web Namespace

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Iis7Website Class	MSBuild Extension Pack Help 4.0.12.0

Valid TaskActions are:


AddMimeType (Required: Name, MimeTypes)

AddResponseHeaders (Required: Name, HttpResponseHeaders)

AddVirtualDirectory (Required: Name, VirtualDirectories Optional: Force)

CheckExists (Required: Name Output: Exists)

CheckVirtualDirectoryExists (Required: Name, VirtualDirectories Output: Exists)


Delete (Required: Name)

DeleteVirtualDirectory (Required: Name, VirtualDirectories)

GetInfo (Required: Name Output: SiteInfo, SiteId)

ModifyPath (Required: Name, Path Output: SiteId)

ModifyLogDirectory (Required: Name, LogDirectory)

SetWindowsAuthenticationProviders (Required: Name, Providers Optional: UseKernelMode)

Start (Required: Name)

Stop (Required: Name)

Remote Execution Support: Yes

Inheritance Hierarchy
SystemObject  Microsoft.Build.UtilitiesTask  
MSBuild.ExtensionPackBaseTask  
**MSBuild.ExtensionPack.Web**  
**Iis7Website**

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

The **Iis7Website** type exposes the following members.

### Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iis7Website</td>
<td></td>
</tr>
</tbody>
</table>

### Top

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AnonymousAuthentication</strong></td>
<td>Sets AnonymousAuthentication for the website. Default is true</td>
</tr>
<tr>
<td><strong>Applications</strong></td>
<td>ITaskItem of Applications. Use AppPool, PhysicalPath and EnabledProtocols metadata to specify applicable values</td>
</tr>
<tr>
<td><strong>AppPool</strong></td>
<td>Sets the app pool.</td>
</tr>
<tr>
<td><strong>BasicAuthentication</strong></td>
<td>Sets BasicAuthentication for the website. Default is false;</td>
</tr>
<tr>
<td><strong>ConnectAsUser</strong></td>
<td>Sets the user of the application (instead of pass-throught authentication).</td>
</tr>
<tr>
<td><strong>ConnectAsUserPassword</strong></td>
<td>Sets the password of the application user (instead of pass-throught authentication).</td>
</tr>
<tr>
<td><strong>DigestAuthentication</strong></td>
<td>Sets DigestAuthentication for the website. Default is false;</td>
</tr>
<tr>
<td><strong>EnabledProtocols</strong></td>
<td>Sets the Enabled Protocols for the website</td>
</tr>
<tr>
<td><strong>Exists</strong></td>
<td>Gets whether the website exists</td>
</tr>
<tr>
<td><strong>Force</strong></td>
<td>Set to true to force the creation of a website, even if it exists.</td>
</tr>
<tr>
<td><strong>HttpResponseHeaders</strong></td>
<td>A collection of headers to add. Specify Identity as name and add Value metadata</td>
</tr>
<tr>
<td><strong>Identifier</strong></td>
<td>Gets or sets the Identifier for the website. If specified for Create and the Identifier already exists, an error is logged.</td>
</tr>
<tr>
<td><strong>LogDirectory</strong></td>
<td>Sets the directory the website writes logfiles to.</td>
</tr>
</tbody>
</table>
LogExtFileFlags

Sets the LogExtFileFlags. Default is 1414 (logextfiletime | logextfileclientip | logextfilemethod | logextfileuristem | logextfilehttpstatus)

LogFormat

Sets the LogExtFileFlags. Default is W3c.

MimeTypes

A collection of MimeTypes. Specify Identity as name and add Value metadata

Name

Sets the name of the Website

Path

Sets the path.

PhysicalPath

Gets the site physical path. [Output]

Port

Sets the port.

Providers

Sets the authentication providers. The authentication providers must be passed in a semicolon separated string.

ServerAutoStart

Sets ServerAutoStart for the website. Default is true.

SiteId

Gets the site id. [Output]

SiteInfo

Gets the SiteInfo Item. Identity = Name, MetaData = ApplicationPoolName, PhysicalPath, Id, State

SslFlags

Sets the SSL Flag for the website

UseKernelMode

Sets whether Windows authentication is done in kernel mode. Default is true.

VirtualDirectories

ITaskItem of VirtualDirectories. Use PhysicalPath metadata to specify applicable values

WindowsAuthentication

Sets WindowsAuthentication for the website. Default is false;

Top

Examples

<Project ToolsVersion="4.0" DefaultTargets="Default"
   <PropertyGroup>
      <TPath>$(MSBuildProjectDirectory)\..\MSBuild.ExtensionPack.tasks</TPath>
      <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\MSBuild.ExtensionPack.tasks')">
   <Import Project="$(TPath)"/>
   <ItemGroup>
<Application Include="/photos">
  <PhysicalPath>C:\photos</PhysicalPath>
  <AppPool>NewAppPool100</AppPool>
  <WindowsAuthentication>true</WindowsAuthentication>
  <AnonymousAuthentication>false</AnonymousAuthentication>
</Application>

<Application Include="/photos2">
  <PhysicalPath>C:\photos2</PhysicalPath>
</Application>

<VirtualDirectory Include="/photosToo">
  <ApplicationPath>/photos2</ApplicationPath>
  <PhysicalPath>C:\photos2</PhysicalPath>
</VirtualDirectory>

<HttpResponseHeaders Include="DemoHeader">
  <Value>DemoHeaderValue</Value>
</HttpResponseHeaders>

<MimeTypes Include=".test">
  <Value>test/test1</Value>
</MimeTypes>
</ItemGroup>
</Target Name="Default">

<!-- Create a site with a virtual directory -->
<MSBuild.ExtensionPack.Web.Iis7Website TaskAction>
  <Output TaskParameter="SiteId" PropertyName="SiteId" />
</MSBuild.ExtensionPack.Web.Iis7Website>
<MSBuild.ExtensionPack.Web.Iis7Website TaskAction>
  <Output TaskParameter="SiteInfo" ItemName="SiteInfo" />
</MSBuild.ExtensionPack.Web.Iis7Website>
<MSBuild.ExtensionPack.Web.Iis7Website TaskAction>
  <Message Text="Id: %(SiteInfo.Id)"/>
  <Message Text="ApplicationPoolName: %(SiteInfo.ApplicationPoolName)"/>
</MSBuild.ExtensionPack.Web.Iis7Website>
<!-- Add HTTP Response Headers -->
<MSBuild.ExtensionPack.Web.Iis7Website TaskAction>
</MSBuild.ExtensionPack.Web.Iis7Website>
<!-- Add Mime Types -->
<MSBuild.ExtensionPack.Web.Iis7Website TaskAction>
</MSBuild.ExtensionPack.Web.Iis7Website>
<!-- Check whether the virtual directory exists -->
<MSBuild.ExtensionPack.Web.Iis7Website TaskAction>
  <Output TaskParameter="Exists" PropertyName="Exists"/>
</MSBuild.ExtensionPack.Web.Iis7Website>
<MSBuild.ExtensionPack.Web.Iis7Website>
<Message Text="VDirExists Exists: $(VDirExists)"/>
<!-- Start a site -->
<MSBuild.ExtensionPack.Web.Iis7Website TaskA>
<!-- Check if the site exists -->
<MSBuild.ExtensionPack.Web.Iis7Website TaskA>
  <Output TaskParameter="Exists" PropertyName="Exists"/>
</MSBuild.ExtensionPack.Web.Iis7Website>
<Message Text="NewSite2 SiteExists: $(SiteExists)"/>
<!-- Create a basic site -->
<MSBuild.ExtensionPack.Web.Iis7Website TaskA>
  <Output TaskParameter="SiteId" PropertyName="SiteId"/>
</MSBuild.ExtensionPack.Web.Iis7Website>
<Message Text="NewSite2 SiteId: $(NewSiteId2)"/>
<!-- Stop a site -->
<MSBuild.ExtensionPack.Web.Iis7Website TaskA>
<!-- Start a site -->
<MSBuild.ExtensionPack.Web.Iis7Website TaskA>
<!-- Delete a site -->
<MSBuild.ExtensionPack.Web.Iis7Website TaskA>
<!-- Set Windows Authentication Providers -->
<MSBuild.ExtensionPack.Web.Iis7Website TaskA>
</Target>
</Project>

See Also
Reference
MSBuild.ExtensionPack.Web Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
<table>
<thead>
<tr>
<th><strong>Iis7Website Constructor</strong></th>
<th>MSBuild Extension Pack Help 4.0.12.0</th>
</tr>
</thead>
</table>

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

### See Also

<table>
<thead>
<tr>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iis7Website Class</td>
</tr>
<tr>
<td>MSBuild.ExtensionPack.Web Namespace</td>
</tr>
</tbody>
</table>

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The **Iis7Website** type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AnonymousAuthentication</td>
<td>Sets AnonymousAuthentication for the website. Default is true</td>
</tr>
<tr>
<td>Applications</td>
<td>ITaskItem of Applications. Use AppPool, PhysicalPath and EnabledProtocols metadata to specify applicable values</td>
</tr>
<tr>
<td>AppPool</td>
<td>Sets the app pool.</td>
</tr>
<tr>
<td>BasicAuthentication</td>
<td>Sets BasicAuthentication for the website. Default is false;</td>
</tr>
<tr>
<td>ConnectAsUser</td>
<td>Sets the user of the application (instead of pass-throught authentication).</td>
</tr>
<tr>
<td>ConnectAsUserPassword</td>
<td>Sets the password of the application user (instead of pass-throught authentication).</td>
</tr>
<tr>
<td>DigestAuthentication</td>
<td>Sets DigestAuthentication for the website. Default is false;</td>
</tr>
<tr>
<td>EnabledProtocols</td>
<td>Sets the Enabled Protocols for the website</td>
</tr>
<tr>
<td>Exists</td>
<td>Gets whether the website exists</td>
</tr>
<tr>
<td>Force</td>
<td>Set to true to force the creation of a website, even if it exists.</td>
</tr>
<tr>
<td>HttpResponseHeaders</td>
<td>A collection of headers to add. Specify Identity as name and add Value metadata</td>
</tr>
<tr>
<td>Identifier</td>
<td>Gets or sets the Identifier for the website. If specified for Create and the Identifier already exists, an error is logged.</td>
</tr>
<tr>
<td>LogDirectory</td>
<td>Sets the directory the website writes logfiles to.</td>
</tr>
<tr>
<td>LogExtFileFlags</td>
<td>Sets the LogExtFileFlags. Default is 1414 (logextfiletime</td>
</tr>
<tr>
<td>LogFormat</td>
<td>Sets the LogExtFileFlags. Default is W3c.</td>
</tr>
<tr>
<td>MimeTypes</td>
<td>A collection of MimeTypes. Specify Identity as name and add Value metadata</td>
</tr>
<tr>
<td>Name</td>
<td>Sets the name of the Website</td>
</tr>
<tr>
<td>Path</td>
<td>Sets the path.</td>
</tr>
<tr>
<td>Property</td>
<td>Description</td>
</tr>
<tr>
<td>------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>PhysicalPath</td>
<td>Gets the site physical path. [Output]</td>
</tr>
<tr>
<td>Port</td>
<td>Sets the port.</td>
</tr>
<tr>
<td>Providers</td>
<td>Sets the authentication providers. The authentication providers must be passed in a semicolon separated string.</td>
</tr>
<tr>
<td>ServerAutoStart</td>
<td>Sets ServerAutoStart for the website. Default is true.</td>
</tr>
<tr>
<td>SiteId</td>
<td>Gets the site id. [Output]</td>
</tr>
<tr>
<td>SiteInfo</td>
<td>Gets the SiteInfo Item. Identity = Name, MetaData = ApplicationPoolName, PhysicalPath, Id, State</td>
</tr>
<tr>
<td>SslFlags</td>
<td>Sets the Ssl Flag for the website</td>
</tr>
<tr>
<td>UseKernelMode</td>
<td>Sets whether Windows authentication is done in kernel mode. Default is true.</td>
</tr>
<tr>
<td>VirtualDirectories</td>
<td>ITaskItem of VirtualDirectories. Use PhysicalPath metadata to specify applicable values</td>
</tr>
<tr>
<td>WindowsAuthentication</td>
<td>Sets WindowsAuthentication for the website. Default is false;</td>
</tr>
</tbody>
</table>

**See Also**

- **Reference**
  - Iis7Website Class
  - MSBuild.ExtensionPack.Web Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
Iis7WebsiteAnonymousAuthentication Property

Sets AnonymousAuthentication for the website. Default is true

Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

See Also

Reference
Iis7Website Class
MSBuild.ExtensionPack.Web Namespace

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Iis7WebsiteApplications Property

ITaskItem of Applications. Use AppPool, PhysicalPath and EnabledProtocols metadata to specify applicable values

Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

See Also

Reference
Iis7Website Class
MSBuild.ExtensionPack.Web Namespace

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**Iis7WebsiteAppPool Property**

Sets the app pool.

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

### See Also

**Reference**

Iis7Website Class  
MSBuild.ExtensionPack.Web Namespace
Iis7WebsiteBasicAuthentication Property

Sets BasicAuthentication for the website. Default is false;

Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

See Also
Reference
Iis7Website Class
MSBuild.ExtensionPack.Web Namespace

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See Also

Iis7Website Class
MSBuild.ExtensionPack.Web Namespace

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**Iis7WebsiteConnectAsUserPassword Property**

Sets the password of the application user (instead of pass-throught authentication).

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**

*Iis7Website Class*  
*MSBuild.ExtensionPack.Web Namespace*

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Iis7WebsiteDigestAuthentication Property

Sets DigestAuthentication for the website. Default is false;

**Namespace:** MSBuild.ExtensionPack.Web
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)
**Version:** 4.0.0.0

See Also

Reference

Iis7Website Class
MSBuild.ExtensionPack.Web Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
Iis7WebsiteEnabledProtocols Property

Sets the Enabled Protocols for the website

Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

See Also

Reference
Iis7Website Class
MSBuild.ExtensionPack.Web Namespace

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Iis7WebsiteExists Property

Gets whether the website exists

Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

See Also

Reference
Iis7Website Class
MSBuild.ExtensionPack.Web Namespace

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Iis7WebsiteForce Property

Set to true to force the creation of a website, even if it exists.

**Namespace:** MSBuild.ExtensionPack.Web

**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)

**Version:** 4.0.0.0

See Also

Reference

Iis7Website Class

MSBuild.ExtensionPack.Web Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**Iis7WebsiteHttpResponseHeaders**  MSBuild Extension Pack

**Property**

A collection of headers to add. Specify Identity as name and add Value metadata

**Namespace:** MSBuild.ExtensionPack.Web

**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)

**Version:** 4.0.0.0

---

**See Also**

**Reference**

Iis7Website Class

MSBuild.ExtensionPack.Web Namespace

---

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Iis7WebsiteIdentifier Property

Gets or sets the Identifier for the website. If specified for Create and the Identifier already exists, an error is logged.

Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

See Also
Reference
Iis7Website Class
MSBuild.ExtensionPack.Web Namespace

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**Iis7WebsiteLogDirectory Property**

Sets the directory the website writes logfiles to.

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
Iis7Website Class  
MSBuild.ExtensionPack.Web Namespace

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**Iis7WebsiteLogExtFileFlags**  
**Property**

Sets the LogExtFileFlags. Default is 1414 (logextfiletime | logextfileclientip | logextfilemethod | logextfileuristem | logextfilehttpstatus)

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

*Iis7Website Class*  
*MSBuild.ExtensionPack.Web Namespace*

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**Iis7WebsiteLogFormat Property**

Sets the LogExtFileFlags. Default is W3c.

*Namespace:* MSBuild.ExtensionPack.Web

*Assembly:* MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)

*Version:* 4.0.0.0

**See Also**

Reference

Iis7Website Class

MSBuild.ExtensionPack.Web Namespace

---

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**Iis7WebsiteMimeTypes Property**

A collection of MimeTypes. Specify Identity as name and add Value metadata.

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

Iis7Website Class  
MSBuild.ExtensionPack.Web Namespace

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Iis7WebsiteName Property

Sets the name of the Website

**Namespace:** MSBuild.ExtensionPack.Web

**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)

**Version:** 4.0.0.0

See Also

Reference

Iis7Website Class
MSBuild.ExtensionPack.Web Namespace

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**Iis7WebsitePath Property**

Sets the path.

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

**See Also**

Reference
- Iis7Website Class
- MSBuild.ExtensionPack.Web Namespace

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**Iis7WebsitePhysicalPath Property**

Gets the site physical path. [Output]

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

---

**See Also**

**Reference**

- Iis7Website Class
- MSBuild.ExtensionPack.Web Namespace

---

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**Iis7WebsitePort Property**  MSBuild Extension Pack Help 4.0.12.0

Sets the port.

**Namespace:**  MSBuild.ExtensionPack.Web  
**Assembly:**  MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:**  4.0.0.0

**See Also**

Reference  
Iis7Website Class  
MSBuild.ExtensionPack.Web Namespace

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**Iis7WebsiteProviders**

**Property**

Sets the authentication providers. The authentication providers must be passed in a semicolon separated string.

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

![See Also](#)

**Reference**

Iis7Website Class  
MSBuild.ExtensionPack.Web Namespace
Iis7WebsiteServerAutoStart Property

Sets ServerAutoStart for the website. Default is true.

Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

See Also

Reference
Iis7Website Class
MSBuild.ExtensionPack.Web Namespace

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**Iis7WebsiteSiteId Property**

Gets the site id. [Output]

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**

Iis7Website Class  
MSBuild.ExtensionPack.Web Namespace

---

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Iis7WebsiteSiteInfo Property

Gets the SiteInfo Item. Identity = Name, MetaData = ApplicationPoolName, PhysicalPath, Id, State

Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

See Also

Reference
Iis7Website Class
MSBuild.ExtensionPack.Web Namespace

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Iis7WebsiteSslFlags Property

Sets the SSL Flag for the website

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

See Also

Reference

Iis7Website Class  
MSBuild.ExtensionPack.Web Namespace

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**Iis7WebsiteUseKernelMode**

Sets whether Windows authentication is done in kernel mode. Default is true.

**Namespace:** MSBuild.ExtensionPack.Web

**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)

**Version:** 4.0.0.0

---

**See Also**

**Reference**

- Iis7Website Class
- MSBuild.ExtensionPack.Web Namespace
Iis7WebsiteVirtualDirectories Property

ITaskItem of VirtualDirectories. Use PhysicalPath metadata to specify applicable values

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack.Iis7 (in MSBuild.ExtensionPack.Iis7.dll)  
**Version:** 4.0.0.0

**See Also**

Reference

Iis7Website Class  
MSBuild.ExtensionPack.Web Namespace

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See Also

Namespace: MSBuild.ExtensionPack.Web
Version: 4.0.0.0

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WebClient Class

Valid TaskActions are:

*DownloadFile* *(Required: Url, FileName Optional: Proxy, BypassOnLocal*Output*: Response)*

*OpenRead* *(Required: Url Optional: DisplayToConsole, Proxy, BypassOnLocal*Output*: Data)*

Remote Execution Support: NA

Inheritance Hierarchy

*SystemObject*  *Microsoft.Build.UtilitiesTask*  *MSBuild.ExtensionPackBaseTask*  *MSBuild.ExtensionPack.WebWebClient*

Namespace:  *MSBuild.ExtensionPack.Web*

Assembly:  *MSBuild.ExtensionPack* *(in MSBuild.ExtensionPack.dll)*  Version: 4.0.0.0

The WebClient type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="setIcon" alt="setIcon" /> WebClient</td>
<td></td>
</tr>
</tbody>
</table>

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="setIcon" alt="setIcon" /> BypassOnLocal</td>
<td>Sets whether to bypass the proxy for local addresses. Default is false.</td>
</tr>
<tr>
<td><img src="setIcon" alt="setIcon" /> Data</td>
<td>Gets the Data downloaded.</td>
</tr>
<tr>
<td><img src="setIcon" alt="setIcon" /> DisplayToConsole</td>
<td>Sets whether to show Data to the console. Default is false.</td>
</tr>
<tr>
<td><img src="setIcon" alt="setIcon" /> FileName</td>
<td>Sets the name of the file</td>
</tr>
<tr>
<td><img src="setIcon" alt="setIcon" /> Proxy</td>
<td>Sets the URI of a proxy</td>
</tr>
<tr>
<td><img src="setIcon" alt="setIcon" /> Url</td>
<td>Sets the name of the Url. Required.</td>
</tr>
</tbody>
</table>
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild.ExtensionPack.tasks</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks')" />
  </PropertyGroup>
  <Import Project="$(TPath)" />
  <Target Name="Default">
    <!-- Download a File -->
    <!-- Download a File using a proxy to connect to the remote server -->
    <!-- Get the contents of a URL -->
    <Output TaskParameter="Data" PropertyName />
    <Message Text="$(Out)" />
  </Target>
</Project>

See Also
Reference
MSBuild.ExtensionPack.Web Namespace

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### WebClient Constructor

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

## See Also

**Reference**
- WebClient Class
- MSBuild.ExtensionPack.Web Namespace

---

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WebClient Properties

The WebClient type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BypassOnLocal</td>
<td>Sets whether to bypass the proxy for local addresses. Default is false.</td>
</tr>
<tr>
<td>Data</td>
<td>Gets the Data downloaded.</td>
</tr>
<tr>
<td>DisplayToConsole</td>
<td>Sets whether to show Data to the console. Default is false.</td>
</tr>
<tr>
<td>FileName</td>
<td>Sets the name of the file</td>
</tr>
<tr>
<td>Proxy</td>
<td>Sets the URI of a proxy</td>
</tr>
<tr>
<td>Url</td>
<td>Sets the name of the Url. Required.</td>
</tr>
</tbody>
</table>

See Also

Reference

WebClient Class

MSBuild.ExtensionPack.Web Namespace

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**WebClientBypassOnLocal Property**

Sets whether to bypass the proxy for local addresses. Default is false.

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

### See Also

**Reference**

- WebClient Class
- MSBuild.ExtensionPack.Web Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
WebClientData Property  MSBuild Extension Pack Help 4.0.12.0

Gets the Data downloaded.

Namespace: MSBuild.ExtensionPack.Web
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
WebClient Class
MSBuild.ExtensionPack.Web Namespace

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Send comments on this topic to MSBuild ExtensionPack Feedback
**WebClientDisplayToConsole Property**

Sets whether to show Data to the console. Default is false.

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**

WebClient Class  
MSBuild.ExtensionPack.Web Namespace

---

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WebClientFileName Property

Sets the name of the file

**Namespace:** MSBuild.ExtensionPack.Web  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also

Reference

WebClient Class  
MSBuild.ExtensionPack.Web Namespace

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WebClientProxy Property

Sets the URI of a proxy

Namespace: MSBuild.ExtensionPack.Web
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
WebClient Class
MSBuild.ExtensionPack.Web Namespace

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**WebClientUrl Property**  
MSBuild Extension Pack Help 4.0.12.0

Sets the name of the Url. Required.

**Namespace:**  
`MSBuild.ExtensionPack.Web`

**Assembly:**  
**Version:**  
4.0.0.0

---

**See Also**

**Reference**

- **WebClient Class**
- **MSBuild.ExtensionPack.Web Namespace**

---

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# MSBuild.ExtensionPack.Xml Namespace

## Overview

This namespace currently hosts the XmlTask

## Classes

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
</table>
| XmlFile | **Valid TaskActions are:**  
  *AddAttribute* *(Required: File, Element or XPath, Key, Value *Optional:*Prefix, Namespaces, RetryCount)*  
  *AddElement* *(Required: File, Element and ParentElement or Element and XPath, *Optional:* Prefix, Key, Value, Namespaces, RetryCount, InnerText, InnerXml, InsertBeforeXPath / InsertAfterXPath)*  
  *ReadAttribute* *(Required: File, XPath *Optional:* Namespaces *Output:* Value)*  
  *ReadElements* *(Required: File, XPath *Optional:* Namespaces, ReadChildrenToMetadata *Output:* Elements). Attributes are added as metadata. Use ReadChildrenToMetadata to add first level children as metadata*  
  *ReadElementText* *(Required: File, XPath *Optional:* Namespaces *Output:* Value)*  
  *ReadElementXml* *(Required: File, XPath *Optional:* Namespaces *Output:* Value)*  
  *RemoveAttribute* *(Required: File, Key, Element or XPath *Optional:* Namespaces, RetryCount)*  
  *RemoveElement* *(Required: File, Element and ParentElement or Element and XPath *Optional:* Namespaces, RetryCount)*  
  *UpdateAttribute* *(Required: File, XPath *Optional:* Namespaces, Key, Value, RetryCount)*  
  *UpdateElement* *(Required: File, XPath *Optional:* Namespaces, InnerText, InnerXml, RetryCount)*  
  *Remote Execution Support:* NA |
| XmlTask | **Valid TaskActions are:**  
  *Transform* *(Required: Xml or XmlFile, XslTransform or XslTransformFile)* |
<table>
<thead>
<tr>
<th>Optional: Conformance, Indent, OmitXmlDeclaration, OutputFile, TextEncoding <strong>Output:</strong> Output</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Validate</strong> <em>(Required: Xml or XmlFile, SchemaFiles</em>* Optional: TargetNamespace <strong>Output:</strong> IsValid, Output)*</td>
</tr>
<tr>
<td><strong>Remote Execution Support:</strong> NA</td>
</tr>
</tbody>
</table>
**XmlFile Class**

**Valid TaskActions are:**

*AddAttribute* *(Required: File, Element or XPath, Key, Value* Optional: *Prefix, Namespaces, RetryCount)*

*AddElement* *(Required: File, Element and ParentElement or Element and XPath, Optional: Prefix, Key, Value, Namespaces, RetryCount, InnerText, InnerXml, InsertBeforeXPath / InsertAfterXPath)*

*ReadAttribute* *(Required: File, XPath* Optional: *Namespaces Output: Value)*

*ReadElements* *(Required: File, XPath* Optional: *Namespaces, ReadChildrenToMetadata Output: Elements). Attributes are added as metadata. Use ReadChildrenToMetadata to add first level children as metadata)*

*ReadElementText* *(Required: File, XPath* Optional: *Namespaces Output: Value)*

*ReadElementXml* *(Required: File, XPath* Optional: *Namespaces Output: Value)*

*RemoveAttribute* *(Required: File, Key, Element or XPath Optional: Namespaces, RetryCount)*

*RemoveElement* *(Required: File, Element and ParentElement or Element and XPath Optional: Namespaces, RetryCount)*

*UpdateAttribute* *(Required: File, XPath Optional: Namespaces, Key, Value, RetryCount)*

*UpdateElement* *(Required: File, XPath Optional: Namespaces, InnerText, InnerXml, RetryCount)*

**Remote Execution Support:** NA

**Inheritance Hierarchy**

**Namespace:** MSBuild.ExtensionPack.Xml  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

The **XmlFile** type exposes the following members.

## Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>XmlFile</td>
<td></td>
</tr>
</tbody>
</table>

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Element</td>
<td>Sets the element. For AddElement, if the element exists, it's InnerText / InnerXml will be updated</td>
</tr>
<tr>
<td>Elements</td>
<td>Gets the elements selected using ReadElements</td>
</tr>
<tr>
<td>File</td>
<td>Sets the file.</td>
</tr>
<tr>
<td>InnerText</td>
<td>Sets the InnerText.</td>
</tr>
<tr>
<td>InnerXml</td>
<td>Sets the InnerXml.</td>
</tr>
<tr>
<td>InsertAfterXPath</td>
<td>Specifies the XPath to be used to control where a new element is added. The Xpath must resolve to single node.</td>
</tr>
<tr>
<td>InsertBeforeXPath</td>
<td>Specifies the XPath to be used to control where a new element is added. The Xpath must resolve to single node.</td>
</tr>
<tr>
<td>Key</td>
<td>Sets the Attribute key.</td>
</tr>
<tr>
<td>Namespaces</td>
<td>TaskItems specifying &quot;Prefix&quot; and &quot;Uri&quot; attributes for use with the specified XPath</td>
</tr>
<tr>
<td>ParentElement</td>
<td>Sets the parent element.</td>
</tr>
<tr>
<td>Prefix</td>
<td>Sets the Prefix used for an added element/attribute, prefix must exists in Namespaces.</td>
</tr>
<tr>
<td>ReadChildrenToMetadata</td>
<td>When using ReadElements, specifies whether the first level child elements should be added as metadata. Child elements will override any read attributes of the same name. Default is false.</td>
</tr>
<tr>
<td>RetryCount</td>
<td>Sets a value indicating how many times to retry saving the file, e.g. if files are temporarily locked. Default is 5. The retry occurs every 5 seconds.</td>
</tr>
<tr>
<td></td>
<td>Value</td>
</tr>
<tr>
<td>---</td>
<td>---------------------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td>Gets or Sets the Attribute key value. Also stores the result of any</td>
</tr>
<tr>
<td></td>
<td>Read TaskActions</td>
</tr>
<tr>
<td></td>
<td>XPath</td>
</tr>
<tr>
<td></td>
<td>Specifies the XPath to be used</td>
</tr>
</tbody>
</table>

## Examples

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default">
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild</TPath>
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks')" />
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <ItemGroup>
    <ConfigSettingsToDeploy Include="c:\machine">
      <Action>RemoveElement</Action>
      <Element>processModel</Element>
      <ParentElement>/configuration/system.web</ParentElement>
    </ConfigSettingsToDeploy>
    <ConfigSettingsToDeploy Include="c:\machine">
      <Action>AddElement</Action>
      <Element>processModel</Element>
      <ParentElement>/configuration/system.web</ParentElement>
    </ConfigSettingsToDeploy>
    <ConfigSettingsToDeploy Include="c:\machine">
      <Action>AddAttribute</Action>
      <Key>enable</Key>
      <ValueToAdd>true</ValueToAdd>
      <Element>/configuration/system.web/processModel</Element>
    </ConfigSettingsToDeploy>
    <ConfigSettingsToDeploy Include="c:\machine">
      <Action>AddAttribute</Action>
      <Key>timeout</Key>
      <ValueToAdd>Infinite</ValueToAdd>
      <Element>/configuration/system.web/processModel</Element>
    </ConfigSettingsToDeploy>
    <ConfigSettingsToDeploy Include="c:\machine">
      <Action>RemoveAttribute</Action>
      <Element>/configuration/system.web/processModel</Element>
    </ConfigSettingsToDeploy>
  </ItemGroup>
</Project>
```
<Key>timeout</Key>
<Element>/configuration/system.web/processRuntime\n</ConfigSettingsToDeploy>
<XMLConfigElementsToAdd Include="c:\machine.config">
  <XPath>/configuration/configSections</XPath>
  <Name>section</Name>
  <KeyAttributeName>name</KeyAttributeName>
  <KeyAttributeValue>enterpriseLibrary.ConfigurationSource</KeyAttributeValue>
</XMLConfigElementsToAdd>
<XMLConfigElementsToAdd Include="c:\machine.config">
  <XPath>/configuration/enterpriseLibrary.ConfigurationSource</XPath>
  <Name>sources</Name>
</XMLConfigElementsToAdd>
<XMLConfigElementsToAdd Include="c:\machine.config">
  <XPath>/configuration/enterpriseLibrary.ConfigurationSource/sources/add</XPath>
  <Name>name</Name>
  <KeyAttributeName>name</KeyAttributeName>
  <KeyAttributeValue>MyKeyAttribute</KeyAttributeValue>
</XMLConfigElementsToAdd>
<XMLConfigAttributesToAdd Include="c:\machine.config">
  <XPath>/configuration/configSections/section[@name='enterpriseLibrary.ConfigurationSource']</XPath>
  <Name>type</Name>
</XMLConfigAttributesToAdd>
<XMLConfigAttributesToAdd Include="c:\machine.config">
  <XPath>/configuration/enterpriseLibrary.ConfigurationSource/sources/add[@name='MyKeyAttribute']</XPath>
  <Name>type</Name>
  <Value>MyKeyAttribute.Common, MyKeyAttribute.Common, Version=1.0.0.0, Culture=neutral, PublicKeyToken=fb2f49125f05d89</Value>
</XMLConfigAttributesToAdd>
<XMLConfigElementsToDelete Include="c:\machine.config">
  <XPath>/configuration/configSections/section[@name='enterpriseLibrary.ConfigurationSource']</XPath>
</XMLConfigElementsToDelete>
<XMLConfigElementsToDelete Include="c:\machine.config">
  <XPath>/configuration/enterpriseLibrary.ConfigurationSource/sources/add[@name='MyKeyAttribute']</XPath>
</XMLConfigElementsToDelete>
<XPath>/configuration/enterpriseLibrary.</XPath>
</XMLConfigElementsToDelete>
</ItemGroup>
<Target Name="Default">

<!-- Work through some manipulations that do not use XPath -->
<MSBuild.ExtensionPack.Xml.XmlFile TaskAction>
</Target>

<!-- Work through some manipulations that use XPath -->
<MSBuild.ExtensionPack.Xml.XmlFile TaskAction>
<MSBuild.ExtensionPack.Xml.XmlFile TaskAction>
<MSBuild.ExtensionPack.Xml.XmlFile TaskAction>
<MSBuild.ExtensionPack.Xml.XmlFile TaskAction>
<MSBuild.ExtensionPack.Xml.XmlFile TaskAction>
</Target>

<!-- The following illustrates Namespace usage -->
</ItemGroup>
<Namespaces Include="Mynamespace">
  <Prefix>me</Prefix>
  <Uri>http://mynamespace</Uri>
</Namespaces>
<XMLConfigElementsToDelete Include="c:\test.xml">
  <XPath>//me:MyNodes/me:sources</XPath>
</XMLConfigElementsToDelete1>
<XMLConfigElementsToAdd1 Include="c:\test.xml">
  <XPath>//me:MyNodes</XPath>
  <Name>sources</Name>
</XMLConfigElementsToAdd1>
</ItemGroup>
<Target Name="DefaultWithNameSpace">
  <MSBuild.ExtensionPack.Xml.XmlFile TaskAction>
  <MSBuild.ExtensionPack.Xml.XmlFile TaskAction>
</Target>
</ItemGroup>
<Namespaces2 Include="Mynamespace">
  <Prefix-xs/></Prefix>
  <Uri>http://www.w3.org/2001/XMLSchema</Uri>
</Namespaces2>
</ItemGroup>
<Target Name="InsertBeforeXPath">
  <MSBuild.ExtensionPack.Xml.XmlFile TaskAction>
See Also

Reference

MSBuild.ExtensionPack.Xml Namespace

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XmlFile Constructor

Namespace: MSBuild.ExtensionPack.Xml
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
XmlFile Class
MSBuild.ExtensionPack.Xml Namespace

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## XmlFile Properties

The **XmlFile** type exposes the following members.

### Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Element</strong></td>
<td>Sets the element. For AddElement, if the element exists, it's InnerText / InnerXml will be updated</td>
</tr>
<tr>
<td><strong>Elements</strong></td>
<td>Gets the elements selected using ReadElements</td>
</tr>
<tr>
<td><strong>File</strong></td>
<td>Sets the file.</td>
</tr>
<tr>
<td><strong>InnerText</strong></td>
<td>Sets the InnerText.</td>
</tr>
<tr>
<td><strong>InnerXml</strong></td>
<td>Sets the InnerXml.</td>
</tr>
<tr>
<td><strong>InsertAfterXPath</strong></td>
<td>Specifies the XPath to be used to control where a new element is added. The Xpath must resolve to single node.</td>
</tr>
<tr>
<td><strong>InsertBeforeXPath</strong></td>
<td>Specifies the XPath to be used to control where a new element is added. The Xpath must resolve to single node.</td>
</tr>
<tr>
<td><strong>Key</strong></td>
<td>Sets the Attribute key.</td>
</tr>
<tr>
<td><strong>Namespaces</strong></td>
<td>TaskItems specifying &quot;Prefix&quot; and &quot;Uri&quot; attributes for use with the specified XPath</td>
</tr>
<tr>
<td><strong>ParentElement</strong></td>
<td>Sets the parent element.</td>
</tr>
<tr>
<td><strong>Prefix</strong></td>
<td>Sets the Prefix used for an added element/attribute, prefix must exists in Namespaces.</td>
</tr>
<tr>
<td><strong>ReadChildrenToMetadata</strong></td>
<td>When using ReadElements, specifies whether the first level child elements should be added as metadata. Child elements will override any read attributes of the same name. Default is false.</td>
</tr>
<tr>
<td><strong>RetryCount</strong></td>
<td>Sets a value indicating how many times to retry saving the file, e.g. if files are temporarily locked. Default is 5. The retry occurs every 5 seconds.</td>
</tr>
<tr>
<td><strong>Value</strong></td>
<td>Gets or Sets the Attribute key value. Also stores the result of any Read TaskActions</td>
</tr>
<tr>
<td><strong>XPath</strong></td>
<td>Specifies the XPath to be used</td>
</tr>
</tbody>
</table>

### See Also

Top
Reference

XmlFile Class
MSBuild.ExtensionPack.Xml Namespace

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**XmlFileElement Property**

Sets the element. For AddElement, if the element exists, it's InnerText / InnerXml will be updated.

**Namespace:** MSBuild.ExtensionPack.Xml

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  Version: 4.0.0.0

---

**See Also**

Reference

XmlFile Class

MSBuild.ExtensionPack.Xml Namespace

---

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**XmlFileElements Property**

Gets the elements selected using ReadElements

**Namespace:** MSBuild.ExtensionPack.Xml  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

**Reference**

XmlFile Class  
MSBuild.ExtensionPack.Xml Namespace

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**XmlFile** Property

Sets the file.

**Namespace:** MSBuild.ExtensionPack.Xml  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference
- XmlFile Class
- MSBuild.ExtensionPack.Xml Namespace

---

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XmlFileInnerText Property

Sets the InnerText.

Namespace: MSBuild.ExtensionPack.Xml
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
XmlFile Class
MSBuild.ExtensionPack.Xml Namespace
XmlFileInnerXml Property

Sets the InnerXml.

Namespace: MSBuild.ExtensionPack.Xml
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
XmlFile Class
MSBuild.ExtensionPack.Xml Namespace

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XmlFileInsertAfterXPath Property

Specifies the XPath to be used to control where a new element is added. The XPath must resolve to a single node.

Namespace: MSBuild.ExtensionPack.Xml
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
XmlFile Class
MSBuild.ExtensionPack.Xml Namespace

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**XmlFileInsertBeforeXPath Property**

Specifies the XPath to be used to control where a new element is added. The XPath must resolve to single node.

**Namespace:** MSBuild.ExtensionPack.Xml

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

**See Also**

Reference

XmlFile Class

MSBuild.ExtensionPack.Xml Namespace

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XmlFileKey Property

Sets the Attribute key.

**Namespace:** MSBuild.ExtensionPack.Xml  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also

Reference

- XmlFile Class
- MSBuild.ExtensionPack.Xml Namespace

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XmlFileNamespaces Property

TaskItems specifying "Prefix" and "Uri" attributes for use with the specified XPath

Namespace: MSBuild.ExtensionPack.Xml
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
XmlFile Class
MSBuild.ExtensionPack.Xml Namespace

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XmlFileParentElement Property

Sets the parent element.

Namespace: **MSBuild.ExtensionPack.Xml**
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

XmlFile Class
MSBuild.ExtensionPack.Xml Namespace

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**XmlFilePrefix Property**  
Sets the Prefix used for an added element/attribute, prefix must exists in Namespaces.

**Namespace:** MSBuild.ExtensionPack.Xml  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Refernce  
XmlFile Class  
MSBuild.ExtensionPack.Xml Namespace

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XmlFileReadChildrenToMetadata MSBuild Extension Pack Help 4.0.12.0

Property

When using ReadElements, specifies whether the first level child elements should be added as metadata. Child elements will override any read attributes of the same name. Default is false.

Namespace: MSBuild.ExtensionPack.Xml
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

XmlFile Class
MSBuild.ExtensionPack.Xml Namespace

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XmlFileRetryCount

Property

Sets a value indicating how many times to retry saving the file, e.g. if files are temporarily locked. Default is 5. The retry occurs every 5 seconds.

Namespace: MSBuild.ExtensionPack.Xml
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
XmlFile Class
MSBuild.ExtensionPack.Xml Namespace

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**XmlFileValue Property**  
MSBuild Extension Pack Help 4.0.12.0

Gets or Sets the Attribute key value. Also stores the result of any Read TaskActions

**Namespace:** MSBuild.ExtensionPack.Xml  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

**See Also**

Reference  
XmlFile Class  
MSBuild.ExtensionPack.Xml Namespace

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**XmlFileXPath Property**  
MSBuild Extension Pack Help 4.0.12.0

Specifies the XPath to be used

**Namespace:** MSBuild.ExtensionPack.Xml  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
XmlFile Class  
MSBuild.ExtensionPack.Xml Namespace

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XmlTask Class

Valid TaskActions are:

Transform (Required: Xml or XmlFile, XslTransform or XslTransformFile
Optional: Conformance, Indent, OmitXmlDeclaration, OutputFile,
TextEncoding Output: Output)

Validate (Required: Xml or XmlFile, SchemaFiles Optional:
TargetNamespace Output: IsValid, Output)

Remote Execution Support: NA

Inheritance Hierarchy

SystemObject  Microsoft.Build.UtilitiesTask
MSBuild.ExtensionPackBaseTask
MSBuild.ExtensionPack.XmlTask

Namespace: MSBuild.ExtensionPack.Xml
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

The XmlTask type exposes the following members.

Constructors

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>XmlTask</td>
<td></td>
</tr>
</tbody>
</table>

Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conformance</td>
<td>Sets the ConformanceLevel. Supports Auto, Document and Fragment. Default is ConformanceLevel.Document</td>
</tr>
<tr>
<td>Indent</td>
<td>Set the Indent option for TransForm. Default is False</td>
</tr>
<tr>
<td>IsValid</td>
<td>Gets whether an XmlFile is valid xml</td>
</tr>
<tr>
<td>OmitXmlDeclaration</td>
<td>Set the OmitXmlDeclaration option for TransForm. Default is False</td>
</tr>
<tr>
<td>Output</td>
<td>Get the Output</td>
</tr>
<tr>
<td>-------------</td>
<td>---------------------------------------</td>
</tr>
<tr>
<td>OutputFile</td>
<td>Sets the OutputFile</td>
</tr>
<tr>
<td>SchemaFiles</td>
<td>Sets the Schema Files collection</td>
</tr>
<tr>
<td>TargetNamespace</td>
<td>Sets the TargetNamespace for Validate. Default is &quot;&quot;</td>
</tr>
<tr>
<td>TextEncoding</td>
<td>Set the Encoding option for Transform. Default is UTF8</td>
</tr>
<tr>
<td>Xml</td>
<td>Sets the XmlFile</td>
</tr>
<tr>
<td>XmlFile</td>
<td>Sets the XmlFile</td>
</tr>
<tr>
<td>XslTransform</td>
<td>Sets the XslTransformFile</td>
</tr>
<tr>
<td>XslTransformFile</td>
<td>Sets the XslTransformFile</td>
</tr>
</tbody>
</table>

**Examples**

```xml
<Project ToolsVersion="4.0" DefaultTargets="Default"
  <PropertyGroup>
    <TPath>$(MSBuildProjectDirectory)\..\MSBuild
    <TPath Condition="Exists('$(MSBuildProjectDirectory)\..\Common\MSBuild.ExtensionPack.tasks')"
  </PropertyGroup>
  <Import Project="$(TPath)"/>
  <Target Name="Default">
    <ItemGroup>
      <Schema Include="c:\Demo1\demo.xsd"/>
    </ItemGroup>
    <PropertyGroup>
      <MyXml>
        <![CDATA[
          <Parent>
            <Child1>Child1 data</Child1>
            <Child2>Child2 data</Child2>
          </Parent>]]&gt;
        </MyXml>
        <![CDATA[<?xml version='1.0'?>
          <xsl:stylesheet xmlns:xsl='http://ww]]>
      </MyXsl>
```
<xs1:template match="/Parent">
  <Root>
    <C1>
      <xs1:value-of select '</C1>
    <C2>
      <xs1:value-of select '</C2>
  </Root>
</xs1:template>
</xs1:stylesheet[]>
</MyXsl>
<MyValidXml>
  <![CDATA[
    <D>
      <Name full="Mike" type="3f3">
        <Place>aPlace</Place>
      </Name>
    </D>]]&gt;
</MyValidXml>
</PropertyGroup>
<!-- Validate an XmlFile -->
<MSBuild.ExtensionPack.Xml.XmlTask TaskAction>
  <Output PropertyName="Validated" TaskParameter>
    <Output PropertyName="Out" TaskParameter>
      <Message Text="Valid File: $(Validated)"/>
      <Message Text="Output: $(Out)"/>
    </Output>
  </Output>
</MSBuild.ExtensionPack.Xml.XmlTask>
<!-- Validate a piece of Xml -->
<MSBuild.ExtensionPack.Xml.XmlTask TaskAction>
  <Output PropertyName="Validated" TaskPar>
    <Output>
      <Message Text="Valid File: $(Validated)"/>
    </Output>
  </Output>
</MSBuild.ExtensionPack.Xml.XmlTask>
<!-- Transform an Xml file with an Xslt file -->
<MSBuild.ExtensionPack.Xml.XmlTask TaskAction>
  <Output PropertyName="Out" TaskParameter>
    <Output>
      <Message Text="Transformed Xml: $(Out)"/>
    </Output>
  </Output>
</MSBuild.ExtensionPack.Xml.XmlTask>
<!-- Transfrom a piece of Xml with an Xslt f
<MSBuild.ExtensionPack.Xml.XmlTask TaskAction="Output" PropertyName="Out" TaskParameter="Out"/>
<Message Text="Transformed Xml: $(Out)"/>
</MSBuild.ExtensionPack.Xml.XmlTask>
<!-- Transform from a piece of Xml with a piece of Xslt and write it out to a file with indented formatting -->
<MSBuild.ExtensionPack.Xml.XmlTask TaskAction="Output" PropertyName="Out" TaskParameter="Out"/>
<Message Text="Transformed Xml: $(Out)"/>
</Target>
</Project>

See Also
Reference
MSBuild.ExtensionPack.Xml Namespace

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XmlTask Constructor

Namespace: MSBuild.ExtensionPack.Xml
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
XML Task Class
MSBuild.ExtensionPack.Xml Namespace

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The `XmlTask` type exposes the following members.

## Properties

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conformance</td>
<td>Sets the ConformanceLevel. Supports Auto, Document and Fragment. Default is ConformanceLevel.Document</td>
</tr>
<tr>
<td>Indent</td>
<td>Set the Indent option for TransForm. Default is False</td>
</tr>
<tr>
<td>IsValid</td>
<td>Gets whether an XmlFile is valid xml</td>
</tr>
<tr>
<td>OmitXmlDeclaration</td>
<td>Set the OmitXmlDeclaration option for TransForm. Default is False</td>
</tr>
<tr>
<td>Output</td>
<td>Get the Output</td>
</tr>
<tr>
<td>OutputFile</td>
<td>Sets the OutputFile</td>
</tr>
<tr>
<td>SchemaFiles</td>
<td>Sets the Schema Files collection</td>
</tr>
<tr>
<td>TargetNamespace</td>
<td>Sets the TargetNamespace for Validate. Default is &quot;&quot;</td>
</tr>
<tr>
<td>TextEncoding</td>
<td>Set the Encoding option for TransForm. Default is UTF8</td>
</tr>
<tr>
<td>Xml</td>
<td>Sets the XmlFile</td>
</tr>
<tr>
<td>XmlFile</td>
<td>Sets the XmlFile</td>
</tr>
<tr>
<td>XslTransform</td>
<td>Sets the XslTransformFile</td>
</tr>
<tr>
<td>XslTransformFile</td>
<td>Sets the XslTransformFile</td>
</tr>
</tbody>
</table>

## See Also

Reference

- **XmlTask Class**
- **MSBuild.ExtensionPack.Xml Namespace**

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XmlTaskConformance Property

Sets the ConformanceLevel. Supports Auto, Document and Fragment. Default is ConformanceLevel.Document

Namespace: MSBuild.ExtensionPack.Xml
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

XmlTask Class
MSBuild.ExtensionPack.Xml Namespace

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XmlTaskIndent Property  MSBuild Extension Pack Help 4.0.12.0

Set the Indent option for TransForm. Default is False

Namespace: MSBuild.ExtensionPack.Xml
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
XmlTask Class
MSBuild.ExtensionPack.Xml Namespace

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**XmlTaskIsValid Property** MSBuild Extension Pack Help 4.0.12.0

Gets whether an XmlFile is valid xml

**Namespace:** MSBuild.ExtensionPack.Xml  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

**See Also**

Reference  
XmlTask Class  
MSBuild.ExtensionPack.Xml Namespace

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XmlTaskOmitXmlDeclaration  MSBuild Extension Pack Help  4.0.12.0

Property

Set the OmitXmlDeclaration option for TransForm. Default is False

Namespace: MSBuild.ExtensionPack.Xml
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference

XmlTask Class
MSBuild.ExtensionPack.Xml Namespace

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**XmlTaskOutput Property**

Get the Output

**Namespace:** MSBuild.ExtensionPack.Xml  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also

Reference

XmlTask Class  
MSBuild.ExtensionPack.Xml Namespace

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XmlTaskOutputFile Property

Sets the OutputFile

**Namespace:** MSBuild.ExtensionPack.Xml
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

**See Also**

**Reference**

XmlTask Class
MSBuild.ExtensionPack.Xml Namespace

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XmlTaskSchemaFiles Property

Sets the Schema Files collection

**Namespace:** MSBuild.ExtensionPack.Xml

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) **Version:** 4.0.0.0

See Also

Reference

XmlTask Class

MSBuild.ExtensionPack.Xml Namespace
XmlTaskTargetNamespace Property

Sets the TargetNamespace for Validate. Default is ""

**Namespace:** MSBuild.ExtensionPack.Xml  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also

Reference

XmlTask Class
MSBuild.ExtensionPack.Xml Namespace

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XmlTask.TextEncoding Property

Set the Encoding option for TransForm. Default is UTF8

Namespace: MSBuild.ExtensionPack.Xml
Assembly: MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

See Also

Reference
XmlTask Class
MSBuild.ExtensionPack.Xml Namespace

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**XmlTaskXml Property**

Sets the XmlFile

**Namespace:** MSBuild.ExtensionPack.Xml  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

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**See Also**

Reference  
XmlTask Class  
MSBuild.ExtensionPack.Xml Namespace

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XmlTaskXmlFile Property

Sets the XmlFile

**Namespace:** MSBuild.ExtensionPack.Xml  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

See Also

**Reference**  
XmlTask Class  
MSBuild.ExtensionPack.Xml Namespace

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XmlTaskXslTransform Property

Sets the XslTransformFile

**Namespace:** MSBuild.ExtensionPack.Xml  
**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll)  
**Version:** 4.0.0.0

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**See Also**

Reference  
XmlTask Class  
MSBuild.ExtensionPack.Xml Namespace

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XmlTask.XmlTaskXslTransformFile

Property

Sets the XslTransformFile

**Namespace:** MSBuild.ExtensionPack.Xml

**Assembly:** MSBuild.ExtensionPack (in MSBuild.ExtensionPack.dll) Version: 4.0.0.0

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**See Also**

Reference

XmlTask Class

MSBuild.ExtensionPack.Xml Namespace

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