



# InstallPathMap Class

Represents a mapping of install paths for all directories, components, or files in an installation database.

## Methods

Method	Description
<code>Add(key, installPath)</code>	Sets an install path for a directory, component, or file key.
<code>BuildComponentPathMap(db, directoryPathMap)</code>	Builds a mapping from Component keys to installation paths.
<code>BuildDirectoryPathMap(db, useShortNames)</code>	Builds a mapping from Directory keys to installation paths.
<code>BuildDirectoryPathMap(db, useShortNames, sourceRootDir, targetRootDir)</code>	Builds a mapping of Directory keys to directory paths, specifying root directories for the source and target paths.
<code>BuildFilePathMap(db, componentPathMap, useShortNames)</code>	Builds a mapping from File keys to installation paths.
<code>Clear()</code>	Removes all entries from the dictionary.

Method	Description
<code>ContainsKey(key)</code>	Tests whether a directory, component, or file key exists in the map.
<code>GetEnumerator()</code>	Gets an enumerator over all entries in the dictionary.
<code>Remove(key)</code>	Removes an install path from the map.

## Properties

Property	Description
<code>Count</code>	Gets the number of entries in the dictionary.
<code>Item</code>	Gets or sets an install path for a directory, component, or file key.
<code>Keys</code>	Gets the collection of keys in the InstallPathMap. Depending on the type of InstallPathMap, they are all directory, component, or file key strings.
<code>SourcePaths</code>	Gets a mapping from keys to source paths.
<code>TargetPaths</code>	Gets a mapping from keys to target paths.
<code>Values</code>	Gets the collection of InstallPath values in the InstallPathMap.

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## Add(key, installPath) Method

Sets an install path for a directory, component, or file key.

### Declaration

```
public void Add(  
    string key,  
    InstallPath installPath  
)
```

### Parameters

Parameter	Type	Description
key	string	Depending on the type of InstallPathMap, this is the primary key from the either the Directory, Component, or File table.
installPath	InstallPath	The install path of the key item.

### Remarks

Changing an install path does not modify the Database used to generate this InstallPathMap.

## BuildComponentPathMap(db, directoryPathMap) Method

Builds a mapping from Component keys to installation paths.

### Declaration

```
public static InstallPathMap BuildComponentPathMap(  
    WixToolset.Dtf.WindowsInstaller.Database db,  
    InstallPathMap directoryPathMap  
)
```

### Parameters

Parameter	Type	Description
db	WixToolset.Dtf.WindowsInstaller.Database	Installation database.
directoryPathMap	InstallPathMap	Directory mapping returned by .

### Return value

`InstallPathMap` An InstallPathMap with the described mapping.

# BuildDirectoryPathMap(db, useShortNames) Method

Builds a mapping from Directory keys to installation paths.

## Declaration

```
public static InstallPathMap BuildDirectoryPathMap(  
    WixToolset.Dtf.WindowsInstaller.Database db,  
    bool useShortNames  
)
```

## Parameters

Parameter	Type	Description
db	WixToolset.Dtf.WindowsInstaller.Database	Installation database.
useShortNames	bool	true to use short directory names; false to use long names

## Return value

`InstallPathMap` An `InstallPathMap` with the described mapping.

# BuildDirectoryPathMap(db, useShortNames, sourceRootDir,

# targetRootDir) Method

Builds a mapping of Directory keys to directory paths, specifying root directories for the source and target paths.

## Declaration

```
public static InstallPathMap BuildDirectoryPathMap(  
    WixToolset.Dtf.WindowsInstaller.Database db,  
    bool useShortNames,  
    string sourceRootDir,  
    string targetRootDir  
)
```

## Parameters

Parameter	Type	Description
db	WixToolset.Dtf.WindowsInstaller.Database	Database containing the Directory table.
useShortNames	bool	true to use short directory names; false to use long names
sourceRootDir	string	The root directory path of all source paths, or null to leave them relative.

Parameter	Type	Description
targetRootDir	string	The root directory path of all source paths, or null to leave them relative.

## Return value

`InstallPathMap` An `InstallPathMap` with the described mapping.

# BuildFilePathMap(db, componentPathMap, useShortNames) Method

Builds a mapping from File keys to installation paths.

## Declaration

```
public static InstallPathMap BuildFilePathMap(  
    WixToolset.Dtf.WindowsInstaller.Database db,  
    InstallPathMap componentPathMap,  
    bool useShortNames  
)
```

## Parameters

Parameter	Type	Description
db	WixToolset.Dtf.WindowsInstaller.Database	Installation database.
componentPathMap	InstallPathMap	Component mapping returned by .
useShortNames	bool	true to use short file names; false to use long names

## Return value

`InstallPathMap` An `InstallPathMap` with the described mapping.

## Clear() Method

Removes all entries from the dictionary.

## Declaration

```
public void Clear()
```

## ContainsKey(key) Method

Tests whether a directory, component, or file key exists in the map.



## Declaration

```
public bool ContainsKey(  
    string key  
)
```

## Parameters

Parameter	Type	Description
key	string	Depending on the type of InstallPathMap, this is the primary key from the either the Directory, Component, or File table.

## Return value

`bool` true if the key is found; false otherwise

## GetEnumerator() Method

Gets an enumerator over all entries in the dictionary.

## Declaration

```
public
```

```
IEnumerator<System.Collections.Generic.KeyValuePair`2<System.String,WixToolset.Dtf.WindowsInstaller.Package.I  
GetEnumerator()
```

## Return value

```
IEnumerator<System.Collections.Generic.KeyValuePair`2<System.String,WixToolset.Dtf.WindowsInstaller.Package.InstallPath>  
>` An enumerator for the dictionary.
```

## Remove(key) Method

Removes an install path from the map.

## Declaration

```
public bool Remove(  
    string key  
)
```

## Parameters

Parameter	Type	Description
key	string	Depending on the type of InstallPathMap, this is the primary key from the either the Directory, Component, or File table.

## Return value

`bool` true if the item was removed, false if it did not exist

## Remarks

Changing an install path does not modify the Database used to generate this InstallPathMap.

## Count Property

Gets the number of entries in the dictionary.

## Declaration

```
public int Count { get; set; }
```

## Item Property

Gets or sets an install path for a directory, component, or file key.

## Declaration

```
public InstallPath Item[  
    string key
```

```
] { get; set; }
```

## Parameters

Parameter	Type	Description
key	string	Depending on the type of InstallPathMap, this is the primary key from the either the Directory, Component, or File table.

## Remarks

Changing an install path does not modify the Database used to generate this InstallPathMap.

## Keys Property

Gets the collection of keys in the InstallPathMap. Depending on the type of InstallPathMap, they are all directory, component, or file key strings.

## Declaration

```
public System.Collections.Generic.ICollection<System.String> Keys { get; set; }
```

## SourcePaths Property

Gets a mapping from keys to source paths.

### Declaration

```
public System.Collections.Generic.IDictionary<System.String, System.String> SourcePaths { get; set; }
```

## TargetPaths Property

Gets a mapping from keys to target paths.

### Declaration

```
public System.Collections.Generic.IDictionary<System.String, System.String> TargetPaths { get; set; }
```

## Values Property

Gets the collection of InstallPath values in the InstallPathMap.

### Declaration

```
public System.Collections.Generic.ICollection<WixToolset.Dtf.WindowsInstaller.Package.InstallPath> Values {  
    get; set; }
```