**ManagementObjectCollection Class**

**.NET Framework 4.5**

[Other Versions](javascript:;)

http://i3.msdn.microsoft.com/Areas/Epx/Content/Images/ImageSprite.png?v=635533092500576233

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Represents different collections of management objects retrieved through WMI. The objects in this collection are of [ManagementBaseObject](http://msdn.microsoft.com/en-us/library/system.management.managementbaseobject%28v=vs.110%29.aspx)-derived types, including [ManagementObject](http://msdn.microsoft.com/en-us/library/system.management.managementobject%28v=vs.110%29.aspx) and [ManagementClass](http://msdn.microsoft.com/en-us/library/system.management.managementclass%28v=vs.110%29.aspx). The collection can be the result of a WMI query executed through a [ManagementObjectSearcher](http://msdn.microsoft.com/en-us/library/system.management.managementobjectsearcher%28v=vs.110%29.aspx), or an enumeration of management objects of a specified type retrieved through a [ManagementClass](http://msdn.microsoft.com/en-us/library/system.management.managementclass%28v=vs.110%29.aspx) representing that type. In addition, this can be a collection of management objects related in a specified way to a specific management object - in this case the collection would be retrieved through a method such as [GetRelated()](http://msdn.microsoft.com/en-us/library/89k086yy%28v=vs.110%29.aspx). The collection can be walked using the [ManagementObjectCollection.ManagementObjectEnumerator](http://msdn.microsoft.com/en-us/library/system.management.managementobjectcollection.managementobjectenumerator%28v=vs.110%29.aspx) and objects in it can be inspected or manipulated for various management tasks.

[**Inheritance Hierarchy**](javascript:void(0))

[System.Object](http://msdn.microsoft.com/en-us/library/system.object%28v=vs.110%29.aspx)   
  System.Management.ManagementObjectCollection

**Namespace:**  [System.Management](http://msdn.microsoft.com/en-us/library/system.management%28v=vs.110%29.aspx)  
**Assembly:**  System.Management (in System.Management.dll)

[**Syntax**](javascript:void(0))

C#

[C++](http://msdn.microsoft.com/en-us/library/system.management.managementobjectcollection%28v=vs.110%29.aspx?cs-save-lang=1&cs-lang=cpp#code-snippet-1)

[F#](http://msdn.microsoft.com/en-us/library/system.management.managementobjectcollection%28v=vs.110%29.aspx?cs-save-lang=1&cs-lang=fsharp#code-snippet-1)

[VB](http://msdn.microsoft.com/en-us/library/system.management.managementobjectcollection%28v=vs.110%29.aspx?cs-save-lang=1&cs-lang=vb#code-snippet-1)

public class ManagementObjectCollection : ICollection,

IEnumerable, IDisposable

The ManagementObjectCollection type exposes the following members.

[**Properties**](javascript:void(0))

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|  |  |  |
| --- | --- | --- |
|  | **Name** | **Description** |
| Public property | [Count](http://msdn.microsoft.com/en-us/library/system.management.managementobjectcollection.count%28v=vs.110%29.aspx) | Gets a value indicating the number of objects in the collection. |
| Public property | [IsSynchronized](http://msdn.microsoft.com/en-us/library/system.management.managementobjectcollection.issynchronized%28v=vs.110%29.aspx) | Gets a value indicating whether the object is synchronized. |
| Public property | [SyncRoot](http://msdn.microsoft.com/en-us/library/system.management.managementobjectcollection.syncroot%28v=vs.110%29.aspx) | Gets the object to be used for synchronization. |

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[**Methods**](javascript:void(0))

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|  |  |  |
| --- | --- | --- |
|  | **Name** | **Description** |
| Public method | [CopyTo(Array, Int32)](http://msdn.microsoft.com/en-us/library/93hdee5s%28v=vs.110%29.aspx) | Copies the collection to an array. |
| Public method | [CopyTo(ManagementBaseObject[], Int32)](http://msdn.microsoft.com/en-us/library/x5ckcb21%28v=vs.110%29.aspx) | Copies the items in the collection to a [ManagementBaseObject](http://msdn.microsoft.com/en-us/library/system.management.managementbaseobject%28v=vs.110%29.aspx) array. |
| Public method | [Dispose](http://msdn.microsoft.com/en-us/library/system.management.managementobjectcollection.dispose%28v=vs.110%29.aspx) | Releases resources associated with this object. After this method has been called, an attempt to use this object will result in an [ObjectDisposedException](http://msdn.microsoft.com/en-us/library/system.objectdisposedexception%28v=vs.110%29.aspx) being thrown. |
| Public method | [Equals(Object)](http://msdn.microsoft.com/en-us/library/bsc2ak47%28v=vs.110%29.aspx) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn.microsoft.com/en-us/library/system.object%28v=vs.110%29.aspx).) |
| Protected method | [Finalize](http://msdn.microsoft.com/en-us/library/system.management.managementobjectcollection.finalize%28v=vs.110%29.aspx) | Disposes of resources the object is holding. This is the destructor for the object. Finalizers are expressed using destructor syntax. (Overrides [Object.Finalize()](http://msdn.microsoft.com/en-us/library/system.object.finalize%28v=vs.110%29.aspx).) |
| Public method | [GetEnumerator](http://msdn.microsoft.com/en-us/library/system.management.managementobjectcollection.getenumerator%28v=vs.110%29.aspx) | Returns the enumerator for the collection. |
| Public method | [GetHashCode](http://msdn.microsoft.com/en-us/library/system.object.gethashcode%28v=vs.110%29.aspx) | Serves as the default hash function. (Inherited from [Object](http://msdn.microsoft.com/en-us/library/system.object%28v=vs.110%29.aspx).) |
| Public method | [GetType](http://msdn.microsoft.com/en-us/library/system.object.gettype%28v=vs.110%29.aspx) | Gets the [Type](http://msdn.microsoft.com/en-us/library/system.type%28v=vs.110%29.aspx) of the current instance. (Inherited from [Object](http://msdn.microsoft.com/en-us/library/system.object%28v=vs.110%29.aspx).) |
| Protected method | [MemberwiseClone](http://msdn.microsoft.com/en-us/library/system.object.memberwiseclone%28v=vs.110%29.aspx) | Creates a shallow copy of the current [Object](http://msdn.microsoft.com/en-us/library/system.object%28v=vs.110%29.aspx). (Inherited from [Object](http://msdn.microsoft.com/en-us/library/system.object%28v=vs.110%29.aspx).) |
| Public method | [ToString](http://msdn.microsoft.com/en-us/library/system.object.tostring%28v=vs.110%29.aspx) | Returns a string that represents the current object. (Inherited from [Object](http://msdn.microsoft.com/en-us/library/system.object%28v=vs.110%29.aspx).) |

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[**Extension Methods**](javascript:void(0))

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| --- | --- | --- |
|  | **Name** | **Description** |
| Public Extension Method | [AsParallel()](http://msdn.microsoft.com/en-us/library/dd413237%28v=vs.110%29.aspx) | Overloaded. Enables parallelization of a query. (Defined by [ParallelEnumerable](http://msdn.microsoft.com/en-us/library/system.linq.parallelenumerable%28v=vs.110%29.aspx).) |
| Public Extension Method | [AsParallel()](http://msdn.microsoft.com/en-us/library/dd413237%28v=vs.110%29.aspx) | Overloaded. (Defined by [ParallelEnumerable](http://msdn.microsoft.com/en-us/library/system.linq.parallelenumerable%28v=vs.110%29.aspx).) |
| Public Extension Method | [AsQueryable()](http://msdn.microsoft.com/en-us/library/bb353734%28v=vs.110%29.aspx) | Overloaded. Converts an [IEnumerable](http://msdn.microsoft.com/en-us/library/system.collections.ienumerable%28v=vs.110%29.aspx) to an [IQueryable](http://msdn.microsoft.com/en-us/library/system.linq.iqueryable%28v=vs.110%29.aspx). (Defined by [Queryable](http://msdn.microsoft.com/en-us/library/system.linq.queryable%28v=vs.110%29.aspx).) |
| Public Extension Method | [AsQueryable()](http://msdn.microsoft.com/en-us/library/bb353734%28v=vs.110%29.aspx) | Overloaded. (Defined by [Queryable](http://msdn.microsoft.com/en-us/library/system.linq.queryable%28v=vs.110%29.aspx).) |
| Public Extension Method | [Cast<TResult>()](http://msdn.microsoft.com/en-us/library/bb341406%28v=vs.110%29.aspx) | Overloaded. Casts the elements of an [IEnumerable](http://msdn.microsoft.com/en-us/library/system.collections.ienumerable%28v=vs.110%29.aspx) to the specified type. (Defined by [Enumerable](http://msdn.microsoft.com/en-us/library/system.linq.enumerable%28v=vs.110%29.aspx).) |
| Public Extension Method | [Cast<TResult>()](http://msdn.microsoft.com/en-us/library/bb341406%28v=vs.110%29.aspx) | Overloaded. (Defined by [Enumerable](http://msdn.microsoft.com/en-us/library/system.linq.enumerable%28v=vs.110%29.aspx).) |
| Public Extension Method | [OfType<TResult>()](http://msdn.microsoft.com/en-us/library/bb360913%28v=vs.110%29.aspx) | Overloaded. Filters the elements of an [IEnumerable](http://msdn.microsoft.com/en-us/library/system.collections.ienumerable%28v=vs.110%29.aspx) based on a specified type. (Defined by [Enumerable](http://msdn.microsoft.com/en-us/library/system.linq.enumerable%28v=vs.110%29.aspx).) |
| Public Extension Method | [OfType<TResult>()](http://msdn.microsoft.com/en-us/library/bb360913%28v=vs.110%29.aspx) | Overloaded. (Defined by [Enumerable](http://msdn.microsoft.com/en-us/library/system.linq.enumerable%28v=vs.110%29.aspx).) |

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[**Explicit Interface Implementations**](javascript:void(0))

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| --- | --- | --- |
|  | **Name** | **Description** |
| Explicit interface implemetationPrivate method | [IEnumerable.GetEnumerator](http://msdn.microsoft.com/en-us/library/bb339964%28v=vs.110%29.aspx) | Returns an [IEnumerator](http://msdn.microsoft.com/en-us/library/system.collections.ienumerator%28v=vs.110%29.aspx) that iterates through the ManagementObjectCollection. |

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[**Version Information**](javascript:void(0))

**.NET Framework**

Supported in: 4.6, 4.5, 4, 3.5, 3.0, 2.0, 1.1, 1.0

**.NET Framework Client Profile**

Supported in: 4, 3.5 SP1

[**Platforms**](javascript:void(0))

Windows 8.1, Windows Server 2012 R2, Windows 8, Windows Server 2012, Windows 7, Windows Vista SP2, Windows Server 2008 (Server Core Role not supported), Windows Server 2008 R2 (Server Core Role supported with SP1 or later; Itanium not supported)

The .NET Framework does not support all versions of every platform. For a list of the supported versions, see [.NET Framework System Requirements](http://msdn.microsoft.com/en-us/library/8z6watww%28v=vs.110%29.aspx).

[**Thread Safety**](javascript:void(0))

Any public static (Shared in Visual Basic) members of this type are thread safe. Any instance members are not guaranteed to be thread safe.

[**See Also**](javascript:void(0))

**Reference**

[System.Management Namespace](http://msdn.microsoft.com/en-us/library/system.management%28v=vs.110%29.aspx)