

System.Collections.IDictionaryEnumerator Interface

```
[ILAsm]  
.class interface public abstract IDictionaryEnumerator implements  
System.Collections.IEnumerator
```

```
[C#]  
public interface IDictionaryEnumerator: IEnumerator
```

Assembly Info:

- *Name:* mscorlib
- *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00]
- *Version:* 2.0.x.x
- *Attributes:*
 - CLSCompliantAttribute(true)

Implements:

- **System.Collections.IEnumerator**

Summary

Implemented by classes that support the use of an enumerator over a dictionary (i.e., a collection of `System.Collections.DictionaryEntry` objects).

Library: BCL

Description

[*Note:* `System.Collections.IDictionaryEnumerator` contains members that get the properties of `System.Collections.DictionaryEntry` objects.

For detailed information regarding the use of an enumerator, see `System.Collections.IEnumerator`.

]

ICollectionEnumerator.Entry Property

```
[ILAsm]
.property valuetype System.Collections.DictionaryEntry Entry {
public hidebysig virtual abstract specialname valuetype
System.Collections.DictionaryEntry get_Entry() }

[C#]
DictionaryEntry Entry { get; }
```

Summary

Gets the `System.Collections.DictionaryEntry` in the collection over which the current instance is positioned.

Property Value

The `System.Collections.DictionaryEntry` in the collection over which the current instance is positioned.

Description

This property is read-only.

Behaviors

It is required that a call to `System.Collections.IDictionaryEnumerator.Entry` leave the position of the enumerator unchanged: consecutive calls to this property are required to return the same `System.Object` until `System.Collections.IEnumerator.MoveNext` or `System.Collections.IEnumerator.Reset` is called.

Usage

Use `System.Collections.IDictionaryEnumerator.Entry` to get the same data that would be provided by a call to `System.Collections.IEnumerator.Current`. Because this property is a `System.Collections.DictionaryEntry`, boxing is not required as it is for `System.Collections.IEnumerator.Current`; therefore, for this operation, `System.Collections.IDictionaryEnumerator.Entry` has reduced overhead compared to `System.Collections.IEnumerator.Current`.

Exceptions

Exception	Condition
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System.InvalidOperationException	The <code>System.Collections.IDictionaryEnumerator</code> is positioned before the first element of the dictionary or after the last element. -or- The dictionary was modified after the <code>System.Collections.IDictionaryEnumerator</code> was created.
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ICollectionEnumerator.Key Property

```
[ILAsm]  
.property object Key { public hidebysig virtual abstract specialname  
object get_Key() }  
  
[C#]  
object Key { get; }
```

Summary

Gets the `System.Collections.DictionaryEntry.Key` of the `System.Collections.DictionaryEntry` in the collection over which the current instance is positioned.

Property Value

A `System.Object` that contains the `System.Collections.DictionaryEntry.Key` of the `System.Collections.DictionaryEntry` in the collection over which the current instance is positioned.

Description

This property is read-only.

Behaviors

It is required that reading `System.Collections.IDictionaryEnumerator.Key` leave the position of the enumerator unchanged: consecutive calls to this property are required to return the same `System.Object` until `System.Collections.IEnumerator.MoveNext` or `System.Collections.IEnumerator.Reset` is called.

Exceptions

Exception	Condition
System.InvalidOperationException	The <code>System.Collections.IDictionaryEnumerator</code> is positioned before the first element of the dictionary or after the last element. -or- The dictionary was modified after the <code>System.Collections.IDictionaryEnumerator</code>

	was instantiated.
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IDictionaryEnumerator.Value Property

```
[ILAsm]  
.property object Value { public hidebysig virtual abstract  
specialname object get_Value() }
```

```
[C#]  
object Value { get; }
```

Summary

Gets the `System.Collections.DictionaryEntry.Value` of the `System.Collections.DictionaryEntry` in the collection over which the current instance is positioned.

Property Value

A `System.Object` that contains the `System.Collections.DictionaryEntry.Value` of the `System.Collections.DictionaryEntry` in the collection over which the current instance is positioned.

Description

This property is read-only.

Behaviors

It is required that a call to `System.Collections.IDictionaryEnumerator.Value` leave the position of the enumerator unchanged: consecutive calls to this property are required to return the same `System.Object` until `System.Collections.IEnumerator.MoveNext` or `System.Collections.IEnumerator.Reset` is called.

Exceptions

Exception	Condition
System.InvalidOperationException	The <code>System.Collections.IDictionaryEnumerator</code> is positioned before the first element of the dictionary or after the last element. -or- The dictionary was modified after the

System.Collections.IDictionaryEnumerator
was created.