

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`.

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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	<p>The <code>System.Collections.IDictionaryEnumerator</code> is positioned before the first element of the dictionary or after the last element.</p> <p>-or-</p> <p>The dictionary was modified after the <code>System.Collections.IDictionaryEnumerator</code> was created.</p>
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IEnumerator.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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IEnumerator.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.
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