

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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1 IDictionaryEnumerator.Entry Property

```
2 [ILAsm]  
3 .property valuetype System.Collections.DictionaryEntry Entry { public  
4 hidebysig virtual abstract specialname valuetype  
5 System.Collections.DictionaryEntry get_Entry() }  
  
6 [C#]  
7 DictionaryEntry Entry { get; }
```

8 Summary

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

11 Property Value

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

15 Description

16 This property is read-only.

17 Behaviors

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

24 Usage

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

1 **Exceptions**

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Exception	Condition
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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I DictionaryEnumerator.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 System.Collections.IDictionaryEnumerator 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 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.IEnumerator.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 System.Collections.IEnumerator is positioned before the first element of the dictionary or after the last element. -or-

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	The dictionary was modified after the System.Collections.IDictionaryEnumerator was created.
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