System.Xml.XmlNamespaceManager Class

```
[ILAsm]
.class public XmlNamespaceManager extends System.Object implements
System.Collections.IEnumerable

[C#]
public class XmlNamespaceManager: IEnumerable
```

Assembly Info:

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

Implements:

- **System.Collections.IEnumerable**

Summary

Resolves, adds, and removes namespaces in a collection and provides scope management for these namespaces. This class is used by the `System.Xml.XmlReader` and `System.Xml.XmlTextReader` classes.

Inherits From: System.Object

Library: XML

Thread Safety: All public static members of this type are safe for multithreaded operations. No instance members are guaranteed to be thread safe.

Description

This class stores prefixes and namespaces as unique `System.String` objects.

`System.Xml.XmlNamespaceManager` assumes all prefixes and namespaces are valid.

If the prefix and namespace already exist within the current scope, they will replace the existing prefix/namespace combination. The same prefix and namespace combination can exist across different scopes.

The following prefix/namespace pairs are added by default to the `System.Xml.XmlNamespaceManager`. They can be determined at any scope.

Prefix	Namespace

xmlns	http://www.w3.org/2000/xmlns/ (the xmlns prefix namespace)
xml	http://www.w3.org/XML/1998/namespace (The XML namespace)
System.String.Empty	System.String.Empty. The empty namespace can be reassigned a different prefix. For example, xmlns="" defines the default namespace to be the empty namespace.

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XmlNamespaceManager(System.Xml.XmlNameTable) Constructor

```
[ILAsm]
public rtspecialname specialname instance void .ctor(class
System.Xml.XmlNameTable nameTable)


[C#]
public XmlNamespaceManager(XmlNameTable nameTable)
```

Summary

Constructs and initializes a new instance of the `System.Xml.XmlNamespaceManager` class.

Parameters

Parameter	Description
nameTable	The `System.Xml.XmlNameTable` to use.

Description

[*Note: nameTable* is used to look up prefixes and namespaces.

]

Exceptions

Exception	Condition
System.ArgumentNullException	*nameTable* is `null`.

1

XmlNamespaceManager.AddNamespace(System.String, System.String) Method

```
[ILAsm]
.method public hidebysig virtual void AddNamespace(string prefix, string
uri)

[C#]
public virtual void AddNamespace(string prefix, string uri)
```

Summary

Adds the given namespace to the collection of namespaces maintained by the current instance in `System.Xml.XmlNamespaceManager.NameTable`.

Parameters

Parameter	Description
prefix	A `System.String` specifying the prefix to associate with the namespace being added. Use `System.String.Empty` to add a default namespace.
uri	A `System.String` specifying the namespace to add.

Description

[*Note:* The same prefix and namespace combination can exist across different scopes.

]

Behaviors

As described above.

Default

This method assumes all prefixes and namespaces are valid but does not check *prefix* and *uri* for conformance to the W3C specification.

If the specified prefix/namespace combination already exists within the current scope, their `System.String` instances will be replaced in `System.Xml.XmlNamespaceManager.NameTable` with the new `System.String` instances of *prefix* and *uri*.

1   **How and When to Override**

2   Override this method to check *prefix* and *uri* for conformance to the W3C specification.

3

4   **Exceptions**

Exception	Condition
System.ArgumentException	*prefix* is "xml" or "xmlns".
System.ArgumentNullException	*prefix* is `null`, or *uri* is `null`.

5

6

XmlNamespaceManager.GetEnumerator() Method

```
[ILAsm]
.method public hidebysig virtual class System.Collections.IEnumerator
GetEnumerator()

[C#]
public virtual IEnumerator GetEnumerator()
```

Summary

Provides support for iteration over the collection of namespaces maintained by the current instance.

Return Value

A `System.Collections.IEnumerator`.

Behaviors

As described above.

How and When to Override

Override this method to customize the behavior of this method in types derived from the `System.Xml.XmlNamespaceManager` class.

Usage

Use this method to iterate through the collection of namespaces in `System.Xml.XmlNamespaceManager.NameTable`.

XmlNamespaceManager.HasNamespace(System.String) Method

```
[ILAsm]
.method public hidebysig virtual bool HasNamespace(string prefix)

[C#]
public virtual bool HasNamespace(string prefix)
```

Summary

Gets a value indicating whether the supplied prefix has a namespace defined for the current pushed scope.

Parameters

Parameter	Description
prefix	A `System.String` containing the prefix of the namespace to find.

Return Value

A `System.Boolean` where `true` indicates there is a namespace defined; otherwise, `false`. If *prefix* is `null`, returns `false`.

Behaviors

As described above.

Default

When *prefix* is set to `System.String.Empty`, this method returns `true` to indicate a default empty namespace is defined in the current scope.

How and When to Override

Override this method to customize the behavior of this method in types derived from the `System.Xml.XmlNamespaceManager` class.

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XmlNamespaceManager.LookupNamespace(System.String) Method

2

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4 `[ILAsm]`
5 `.method public hidebysig virtual string LookupNamespace(string prefix)`

6 `[C#]`
7 `public virtual string LookupNamespace(string prefix)`

8 **Summary**

9 Gets the namespace URI associated with the specified prefix.

10 **Parameters**

Parameter	Description
prefix	A `System.String` containing the prefix whose namespace URI to resolve. To match the default namespace, pass `System.String.Empty`.

11
12 **Return Value**

13 A `System.String` containing the namespace URI for *prefix*, or `null` if there is no
14 mapped namespace.

15 **Behaviors**

16 As described above.

17

18 **How and When to Override**

19 Override this method to customize the behavior of this method in types derived from the
20 `System.Xml.XmlNamespaceManager` class.

21

22

XmlNamespaceManager.LookupPrefix(System.String) Method

```
[ILAsm]
.method public hidebysig virtual string LookupPrefix(string uri)

[C#]
public virtual string LookupPrefix(string uri)
```

Summary

Gets the prefix associated with the given namespace URI.

Parameters

Parameter	Description
uri	A `System.String` containing the namespace to resolve for the prefix.

Return Value

A `System.String` containing the matching prefix. If there is no mapped prefix, this method returns `null`. If a `null` value is supplied, then `null` is returned.

Behaviors

As described above.

How and When to Override

Override this method to customize the behavior of this method in types derived from the `System.Xml.XmlNamespaceManager` class.

XmlNamespaceManager.PopScope() Method

```
[ILAsm]
.method public hidebysig virtual bool PopScope()

[C#]
public virtual bool PopScope()
```

Summary

Pops a namespace scope off the stack.

Return Value

A `System.Boolean` where `true` indicates a namespace scope was popped off the stack; `false` indicates there were no namespaces scopes to pop.

Behaviors

As described above.

Default

This method removes all the namespaces that were added to the collection (by calling `System.Xml.XmlNamespaceManager.AddNamespace`) since the last call to the `System.Xml.XmlNamespaceManager.PopScope` method.

How and When to Override

Override this method to customize the behavior of this method in types derived from the `System.Xml.XmlNamespaceManager` class.

XmlNamespaceManager.PushScope() Method

```
[ILAsm]
.method public hidebysig virtual void PushScope()

[C#]
public virtual void PushScope()
```

Summary

Pushes a namespace scope onto the stack.

Behaviors

As described above.

Default

This method associates the pushed namespace scope with all the namespaces added to the collection (by calling System.Xml.XmlNamespaceManager.AddNamespace) since the last call to the System.Xml.XmlNamespaceManager.PushScope method.

How and When to Override

Override this method to customize the behavior of this method in types derived from the System.Xml.XmlNamespaceManager class.

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XmlNamespaceManager.RemoveNamespace(System.String, System.String) Method

```
4  [ILAsm]
5  .method public hidebysig virtual void RemoveNamespace(string prefix,
6  string uri)

7  [C#]
8  public virtual void RemoveNamespace(string prefix, string uri)
```

9 **Summary**

10 Removes the specified namespace associated with the specified prefix from the
11 namespace collection maintained by the current instance.

12 **Parameters**

Parameter	Description
prefix	A `System.String` specifying the prefix.
uri	A `System.String` specifying the namespace to remove.

13

14 **Behaviors**

15 As described above.

16

17 **Default**

18 The namespace removed is from the current namespace scope. Namespaces outside the
19 current scope are ignored. If *prefix* or *uri* does not exist in the collection, this method
20 simply returns.

21

22 **How and When to Override**

23 Override this method to customize the behavior of this method in types derived from the
24 `System.Xml.XmlNamespaceManager` class.

25

1   **Exceptions**

Exception	Condition
System.ArgumentNullException	*prefix* is `null`, or *uri* is `null`.

2

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1 XmlNamespaceManager.DefaultNamespace
2 Property

```
[ILAsm]
.property string DefaultNamespace { public hidebysig virtual specialname
string get_DefaultNamespace() }

[C#]
public virtual string DefaultNamespace { get; }
```

8 Summary

9 Gets the namespace URI for the default namespace.

10 Property Value

11 A `System.String` containing the namespace URI for the default namespace, or
12 `System.String.Empty` if there is no default namespace.

13 Description

14 This property is read-only.

15 Behaviors

16 As described above.

17

18 Default

19 This method is equivalent to calling
20 `System.Xml.XmlNamespaceManager.LookupNamespace` (`System.String.Empty`).

21

22 How and When to Override

23 Override this property to customize the behavior of this property in types derived from
24 the `System.Xml.XmlNamespaceManager` class.

25

26

XmlNamespaceManager.NameTable Property

```
[ILAsm]
.property class System.Xml.XmlNameTable NameTable { public hidebysig
specialname instance class System.Xml.XmlNameTable get_NameTable() }


[C#]
public XmlNameTable NameTable { get; }
```

Summary

Gets the name table used by the current instance to look up prefixes and namespace URIs.

Property Value

The `System.Xml.XmlNameTable` used by the current instance.

Description

This property is read-only.