

# 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]
- Version: 1.0.x.x
- Attributes:
  - 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

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**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)
<b>System.String.Empty</b>	<b>System.String.Empty</b> . The empty namespace can be reassigned a different prefix. For example, <code>xmlns=""</code> defines the default namespace to be the empty namespace.

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# 1 XmlNamespaceManager(System.Xml.Xml 2 NameTable) Constructor

```
3 [ILASM]  
4 public rtspecialname specialname instance void .ctor(class  
5 System.Xml.XmlNameTable nameTable)  
  
6 [C#]  
7 public XmlNamespaceManager(XmlNameTable nameTable)
```

## 8 Summary

9 Constructs and initializes a new instance of the  
10 **System.Xml.XmlNamespaceManager** class.

## 11 Parameters

Parameter	Description
<i>nameTable</i>	The <b>System.Xml.XmlNameTable</b> to use.

## 15 Description

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

## 17 Exceptions

Exception	Condition
<b>System.ArgumentNullException</b>	<i>nameTable</i> is <b>null</b> .

# 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
<i>prefix</i>	A <b>System.String</b> specifying the prefix to associate with the namespace being added. Use <b>System.String.Empty</b> to add a default namespace.
<i>uri</i>	A <b>System.String</b> 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*.

## How and When to Override

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

1   **Exceptions**

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Exception	Condition
<b>System.ArgumentException</b>	<i>prefix</i> is "xml" or "xmlns".
<b>System.ArgumentNullException</b>	<i>prefix</i> is <b>null</b> , or <i>uri</i> is <b>null</b> .

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# 1 XmlNamespaceManager.GetEnumerator() 2 Method

```
3 [ILASM]  
4 .method public hidebysig virtual class  
5 System.Collections.IEnumerator GetEnumerator()  
  
6 [C#]  
7 public virtual IEnumerator GetEnumerator()
```

## 8 Summary

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

## 11 Return Value

12

13 A **System.Collections.IEnumerator**.

## 14 Behaviors

15 As described above.

## 16 How and When to Override

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

## 19 Usage

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

22

# 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
<i>prefix</i>	A <b>System.String</b> 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.

# 1 XmlNamespaceManager.LookupNamespace( 2 e(System.String) Method

```
3 [ILASM]  
4 .method public hidebysig virtual string  
5 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

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Parameter	Description
<i>prefix</i>	A <b>System.String</b> containing the prefix whose namespace URI to resolve. To match the default namespace, pass <b>System.String.Empty</b> .

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## Return Value

16 A **System.String** containing the namespace URI for *prefix*, or **null** if  
17 there is no mapped namespace.

## 18 Behaviors

19 As described above.

## 20 How and When to Override

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

23



# 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 <b>System.String</b> 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 **System.String.Empty**. 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.

# 1 XmlNamespaceManager.PopScope() 2 Method

```
3 [ILASM]  
4 .method public hidebysig virtual bool PopScope()  
5 [C#]  
6 public virtual bool PopScope()
```

## 7 Summary

8 Pops a namespace scope off the stack.

## 9 Return Value

10

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

## 14 Behaviors

15 As described above.

## 16 Default

17 This method removes all the namespaces that were added to the  
18 collection (by calling  
19 **System.Xml.XmlNamespaceManager.AddNamespace**) since the  
20 last call to the **System.Xml.XmlNamespaceManager.PopScope**  
21 method.

## 22 How and When to Override

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

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# 1 XmlNamespaceManager.PushScope() 2 Method

```
3 [ILASM]  
4 .method public hidebysig virtual void PushScope()  
5 [C#]  
6 public virtual void PushScope()
```

## 7 Summary

8 Pushes a namespace scope onto the stack.

## 9 Behaviors

10 As described above.

## 11 Default

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

## 17 How and When to Override

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

20

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

```
[ILASM]
.method public hidebysig virtual void
RemoveNamespace(string prefix, string uri)

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

## Summary

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

## Parameters

Parameter	Description
<i>prefix</i>	A <b>System.String</b> specifying the prefix.
<i>uri</i>	A <b>System.String</b> specifying the namespace to remove.

## Behaviors

As described above.

## Default

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

## How and When to Override

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

## Exceptions

Exception	Condition
<b>System.ArgumentNullException</b>	<i>prefix</i> is <b>null</b> , or <i>uri</i> is <b>null</b> .

# XmlNamespaceManager.DefaultNamespace Property

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

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

## Summary

Gets the namespace URI for the default namespace.

## Property Value

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

## Description

This property is read-only.

## Behaviors

As described above.

## Default

This method is equivalent to calling **System.Xml.XmlNamespaceManager.LookupNamespace(System.String.Empty)**.

## How and When to Override

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

# 1 XmlNamespaceManager.NameTable

## 2 Property

```
3 [ILASM]  
4 .property class System.Xml.XmlNameTable NameTable { public  
5 hidebysig specialname instance class  
6 System.Xml.XmlNameTable get_NameTable() }  
  
7 [C#]  
8 public XmlNameTable NameTable { get; }
```

### 9 Summary

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

### 12 Property Value

13

14 The **System.Xml.XmlNameTable** used by the current instance.

### 15 Description

16 This property is read-only.

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