

System.Xml.XmlUrlResolver Class

```
[ILAsm]
.class public XmlUrlResolver extends System.Xml.XmlResolver

[C#]
public class XmlUrlResolver: XmlResolver
```

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:*
 - CLSCompliantAttribute(true)

Summary

Resolves external XML resources named by a URI.

Inherits From: System.Xml.XmlResolver

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 is used to resolve external XML resources such as entities, document type definitions (DTDs), or schemas. It is also used to process include and import elements found in Extensible StyleSheet Language (XSL) stylesheets or XML Schema Definition language (XSD) schemas.

This class implements the `System.Xml.XmlResolver` class.

XmlUriResolver() Constructor

```
[ILAsm]  
public rtspecialname specialname instance void .ctor()  
  
[C#]  
public XmlUriResolver()
```

Summary

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

XmlUriResolver.GetEntity(System.Uri, System.String, System.Type) Method

```
[ILAsm]  
.method public hidebysig virtual object GetEntity(class System.Uri  
absoluteUri, string role, class System.Type ofObjectToReturn)  
  
[C#]  
public override object GetEntity(Uri absoluteUri, string role, Type  
ofObjectToReturn)
```

Summary

Maps a URI to an object containing the actual resource that the URI represents.

Parameters

Parameter	Description
<i>absoluteUri</i>	The System.Uri returned from System.Xml.XmlUriResolver.ResolveUri.
<i>role</i>	This parameter is not used.
<i>ofObjectToReturn</i>	null or typeof(System.IO.Stream).

Return Value

A System.IO.Stream containing the resource, or null if *ofObjectToReturn* is null.

Description

[Note: This method overrides System.Xml.XmlResolver.GetEntity.
]

Exceptions

Exception	Condition
-----------	-----------

System.NullReferenceException	<i>absoluteUri</i> is null.
System.Xml.XmlException	<i>ofObjectToReturn</i> is not null or typeof(System.IO.Stream).

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XmlUriResolver.ResolveUri(System.Uri, System.String) Method

```
[ILAsm]
.method public hidebysig virtual class System.Uri ResolveUri(class
System.Uri baseUri, string relativeUri)

[C#]
public override Uri ResolveUri(Uri baseUri, string relativeUri)
```

Summary

Resolves the absolute URI from the base and relative URIs.

Parameters

Parameter	Description
<i>baseUri</i>	The System.Uri specifying the base URI used to resolve <i>relativeUri</i> .
<i>relativeUri</i>	A System.String specifying the URI to resolve. The URI can be absolute or relative.

Return Value

A System.Uri containing the absolute URI, or null if *relativeUri* can not be resolved.

Description

If *relativeUri* is null, it is set to System.String.Empty.

[Note: The absolute URI can be used as the base URI for any subsequent requests for entities that are relative to this URI.

This method overrides System.Xml.XmlResolver.ResolveUri.

]

Exceptions

Exception	Condition
System.ArgumentException	<i>relativeUri</i> is null.

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XmlUriResolver.Credentials Property

```
[ILAsm]  
.property class System.Net.ICredentials Credentials { public hidebyref  
virtual specialname void set_Credentials(class System.Net.ICredentials  
value) }
```

```
[C#]  
public override ICredentials Credentials { set; }
```

Summary

Sets the credentials used to authenticate Web requests.

Property Value

A System.Net.ICredentials instance containing the credentials.

Description

This property is write-only.

If the virtual directory is configured to allow anonymous access, credentials are not needed and this property does not need to be set.

[*Note:* This property overrides System.Xml.XmlResolver.Credentials.

]

Example

The following example sets credentials for the virtual directory "http://localhost/bookstore/inventory.xml". There is no output from this example.

```
[C#]  
  
using System;  
using System.Net;  
using System.Xml;  
  
public class App {  
  
    public static void Main() {  
  
        XmlTextReader xtReader =  
            new XmlTextReader("http://localhost/" +  
                "bookstore/inventory.xml");  
        NetworkCredential netCredential =  
            new NetworkCredential("username",
```

```

1         "password",
2         "domain");
3     XmlUrlResolver xResolver = new XmlUrlResolver();
4     xResolver.Credentials = netCredential;
5     xtReader.XmlResolver= xResolver;
6 }
7 }
8

```

The following example associates different credentials with different URIs and adds the credentials to a credential cache. The credentials can then be used to check authentication for different URIs regardless of the original source of the XML. There is no output from this example.

[C#]

```

15 using System;
16 using System.Net;
17 using System.Xml;
18
19 public class App {
20
21     public static void Main() {
22
23         XmlTextReader xtReader =
24             new XmlTextReader("http://localhost/" +
25                 "bookstore/inventory.xml");
26         NetworkCredential netCredential1 =
27             new NetworkCredential("username1",
28                 "password1",
29                 "domain1");
30         NetworkCredential netCredential2 =
31             new NetworkCredential("username2",
32                 "password2",
33                 "domain2");
34         CredentialCache credCache = new CredentialCache();
35         credCache.Add( new Uri("http://www.contoso.com/"),
36             "Basic",
37             netCredential1);
38         credCache.Add( new Uri("http://app.contoso.com/"),
39             "Basic",
40             netCredential2);
41         XmlUrlResolver xResolver = new XmlUrlResolver();
42         xResolver.Credentials = credCache;
43         xtReader.XmlResolver= xResolver;
44     }
45 }
46
47

```