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:* 1.0.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.

XmlUrlResolver() Constructor

```
[ILASM]
public rtspecialname specialname instance void .ctor()

[C#]
public XmlUrlResolver()
```

Summary

Constructs and initializes a new instance of the **System.Xml.XmlUrlResolver** class.

XmlUrlResolver.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
absoluteUri	The **System.Uri** returned from **System.Xml.XmlUrlResolver.ResolveUri**.
role	This parameter is not used.
ofObjectToReturn	**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.ArgumentNullException	*absoluteUri* is **null**.
System.Xml.XmlException	*ofObjectToReturn* is not **null** or **typeof**(**System.IO.Stream**).

XmlUrlResolver.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
baseUri	The **System.Uri** specifying the base URI used to resolve *relativeURI*.
relativeUri	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 may 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.Xml.XmlException	*baseUri* and *relativeUri* are **null**.

XmlUrlResolver.Credentials Property

[ILASM]

```
.property class System.Net.ICredentials Credentials {
public hidebysig 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. If credentials are needed but not supplied, the **System.Xml.XmlUrlResolver** class uses default credentials (**System.Net.CredentialCache.DefaultCredentials**).

[*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",
                            "password",
                            "domain");
    XmlUrlResolver xResolver = new XmlUrlResolver();
    xResolver.Credentials = netCredential;
    xtReader.XmlResolver= xResolver;
  }
}
```

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#]

```
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 netCredential1 =
      new NetworkCredential("username1",
                            "password1",
                            "domain1");
    NetworkCredential netCredential2 =
      new NetworkCredential("username2",
                            "password2",
                            "domain2");
    CredentialCache credCache = new CredentialCache();
    credCache.Add(new Uri("http://www.contoso.com/"),
                  "Basic",
                   netCredential1);
    credCache.Add(new Uri("http://app.contoso.com/"),
                  "Basic",
                   netCredential2);
    XmlUrlResolver xResolver = new XmlUrlResolver();
    xResolver.Credentials = credCache;
    xtReader.XmlResolver= xResolver;
```

```
            }
        }
```