1 System.Xml.XmlResolver Class

2 [ILAsm]
3 **.class public abstract XmlResolver extends System.Object**

4 [C#]
5 **public abstract class XmlResolver**

6 **Assembly Info:**

7 • *Name:* System.Xml
8 • *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00 00]
9 • *Version:* 2.0.x.x
10 • *Attributes:*
11   o CLSCompliantAttribute(true)

12 **Summary**

13 Resolves external XML resources named by a URI.

14 **Inherits From: System.Object**

15

16 **Library:** XML

17

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

20

21 **Description**

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

26
27 This class is abstract and implemented in the System.Xml.XmlUrlResolver class.

28

XmlResolver() Constructor

```
[ILAsm]
family rtspecialname specialname instance void .ctor()

[C#]
protected XmlResolver()
```

Summary

Constructs a new instance of the System.Xml.XmlResolver class.

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

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

[C#]
public abstract 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	An instance of the `System.Uri` class containing an absolute URI.
role	A `System.String` containing the `xlink:role`, or used as an implementation specific argument in other scenarios.
ofObjectToReturn	The type of object to return.

Return Value

A `System.Object` containing the resource.

Behaviors

As described above.

How and When to Override

At a minimum, supporting the return of a `System.IO.Stream` object is required.

Exceptions

Exception	Condition

System.NullReferenceException	*absoluteUri* is `null`.
System.Xml.XmlException	*ofObjectToReturn* is not a supported type.

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1 XmlResolver.ResolveUri(System.Uri,
2 System.String) Method

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

6  [C#]
7  public abstract Uri ResolveUri(Uri baseUri, string relativeUri)
```

8 Summary

9   Resolves the absolute URI from the base and relative URIs.

10 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.

11
12 Return Value

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

14 Behaviors

15   As described above.

16

17 How and When to Override

18   This method must be overridden in order to provide the functionality described above,
19   as there is no default implementation.

20

21 Exceptions

Exception	Condition

System.Xml.ArgumentException	*baseUri* and *relativeUri* are `null`.

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XmlResolver.Credentials Property

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


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

Summary

Sets the credentials used to authenticate Web requests.

Property Value

A `System.Net.ICredentials` instance containing the credentials.

Behaviors

This property sets the credentials used to authenticate Web requests. If the virtual
directory is configured to allow anonymous access, this property does not need to be
set. Otherwise, the credentials of the user must be supplied.

This property is write-only.

How and When to Override

This property must be overridden in order to provide the functionality described above,
as there is no default implementation.

Example

See `System.Xml.XmlUrlResolver.Credentials` for an example using this property.