System.Xml.XmlResolver Class

```
[ILASM]
.class public abstract XmlResolver extends System.Object

[C#]
public abstract class 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.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 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 is **abstract** and implemented in the **System.Xml.XmlUrlResolver** class.

1 XmlResolver() Constructor

```
[ILASM]
family specialname instance void .ctor()


[C#]
protected XmlResolver()
```

6 Summary

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

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

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

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

[C#]
public abstract 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.

Behaviors

As described above.

How and When to Override

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

Exceptions

Exception	Condition
System.Xml.XmlException	*baseUri* and *relativeUri* are **null**.

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. If credentials are needed but not supplied, the
System.Xml.XmlResolver class uses default credentials
(**System.Net.CredentialCache.DefaultCredentials**).

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.