

1 System.Net.WebPermission Class

```
2 [ILAsm]  
3 .class public serializable WebPermission extends  
4 System.Security.CodeAccessPermission  
  
5 [C#]  
6 public class WebPermission: CodeAccessPermission
```

7 Assembly Info:

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

13 Implements:

- 14 • **System.Security.IPermission**

15 Summary

16 Controls access to Internet resources.

17 Inherits From: System.Security.CodeAccessPermission

18
19 **Library:** Networking

20
21 **Thread Safety:** All public static members of this type are safe for multithreaded operations.
22 No instance members are guaranteed to be thread safe.

23 24 Description

25 The XML encoding of a *System.Net.WebPermission* instance is defined below in EBNF
26 format. The following conventions are used:

- 27 • All non-literals in the grammar below are shown in normal type.
- 28 • All literals are in bold font.

29 The following meta-language symbols are used:

- 30 • '*' represents a meta-language symbol suffixing an expression that can appear zero
31 or more times.
- 32 • '?' represents a meta-language symbol suffixing an expression that can appear zero
33 or one time.

- 1 • '+' represents a meta-language symbol suffixing an expression that can appear one
2 or more times.
- 3 • '(',')' is used to group literals, non-literals or a mixture of literals and non-literals.
- 4 • '|' denotes an exclusive disjunction between two expressions.
- 5 • '::=' denotes a production rule where a left hand non-literal is replaced by a right
6 hand expression containing literals, non-literals or both.

7 BuildVersion refers to the build version of the shipping CLI. This is a dotted build number
8 such as '2412.0'.

9

10 ECMAPubKeyToken ::= b77a5c561934e089

11

12 HostName refers to a host name such as www.contoso.com.

13

14 Portnumber denotes a System.Int32 value indicating a port.

15

16 TransportProtocol ::= 1 | 2 | 3 /*1= UDP, 2 = TCP, 3 = both */

17

18 WebPermissionXML ::=

19

20

21 <IPermission

22

23

24 class="

25

26

27 System.Net.WebPermission,

28

29

30 System,

31

32

33 Version=1.0.BuildVersion,

34

35

36 Culture=neutral,

37

38

39 PublicKeyToken=ECMAPubKeyToken"

40

41

42 version="1"

43

44

45 (

```
1
2
3 Unrestricted="true"/>
4
5
6 )
7
8
9 |
10
11
12 >
13
14
15 (<ConnectAccess>
16
17
18 (
19
20
21 <URI>HostName#PortNumber#TransportProtocol</URI>
22
23
24 )+
25
26
27 </ConnectAccess>
28
29
30 </IPermission>
31
32
33 )
34
35
36 |
37
38
39 >
40
41
42 (<AcceptAccess>
43
44
45 (
46
47
48 <URI>HostName#PortNumber#TransportProtocol</URI>
49
50
```

```
1  )+
2
3
4  </AcceptAccess>
5
6
7  </IPermission>
8
9
10 )
11
12
13 |
14
15
16 />
17
18
```

1
2 **WebPermission(System.Security.Permissions.**
3 **PermissionState) Constructor**

```
4 [ILAsm]  
5 public rtspecialname specialname instance void .ctor(valuetype  
6 System.Security.Permissions.PermissionState state)  
7  
8 [C#]  
9 public WebPermission(PermissionState state)
```

9 **Summary**

10 Constructs and initializes a new instance of the `System.Net.WebPermission` class with
11 the specified `System.Security.Permissions.PermissionState` value.

12 **Parameters**

Parameter	Description
<i>state</i>	A <code>System.Security.Permissions.PermissionState</code> value.

13
14 **Description**

15 [*Note:* This constructor creates either fully restricted
16 (`System.Security.Permissions.PermissionState.None`) or
17 `System.Security.Permissions.PermissionState.Unrestricted` access to Internet
18 resources.
19
20]

21

1 WebPermission(System.Net.NetworkAccess, 2 System.String) Constructor

```
3 [ILAsm]  
4 public rtspecialname specialname instance void .ctor(valuetype  
5 System.Net.NetworkAccess access, string uriString)  
  
6 [C#]  
7 public WebPermission(NetworkAccess access, string uriString)
```

8 Summary

9 Constructs and initializes a new instance of the System.Net.WebPermission class that
10 secures access to the specified URI.

11 Parameters

Parameter	Description
<i>access</i>	A System.Net.NetworkAccess value indicating the type of access to secure.
<i>uriString</i>	A System.String that represents the URI to grant access rights to. [Note: For more information on the format of this string, see System.Uri.]

12

13 Exceptions

Exception	Condition
System.ArgumentNullException	<i>uriString</i> is null.

14

15

1 WebPermission.Copy() Method

```
2 [ILAsm]  
3 .method public hidebysig virtual class System.Security.IPermission Copy()  
4 [C#]  
5 public override IPermission Copy()
```

6 Summary

7 Returns a new `System.Net.WebPermission` object containing the same values as the
8 current instance.

9 Return Value

10 A new `System.Net.WebPermission` instance containing the same values as the current
11 instance.

12 Description

13 [*Note:* The object returned by this method represents the same access to resources as
14 the current instance.

15
16 This method overrides `System.Security.CodeAccessPermission.Copy` and is
17 implemented to support the `System.Security.IPermission` interface.

18
19]

20

1
2 **WebPermission.FromXml(System.Security.SecurityElement) Method**
3

```
4 [ILAsm]  
5 .method public hidebysig virtual void FromXml(class  
6 System.Security.SecurityElement securityElement)  
  
7 [C#]  
8 public override void FromXml(SecurityElement securityElement)
```

9 **Summary**

10 Reconstructs the state of a `System.Net.WebPermission` object using the specified XML
11 encoding.

12 **Parameters**

Parameter	Description
<i>securityElement</i>	A <code>System.Security.SecurityElement</code> instance containing the XML encoding to use to reconstruct the state of a <code>System.Net.WebPermission</code> object.

13
14 **Description**

15 The state of the current instance is changed to the state encoded in *securityElement*.

16
17 [Note: For the XML encoding for this class, see the `System.Net.WebPermission` class
18 page.

19
20 This method overrides `System.Security.CodeAccessPermission.FromXml`.

21
22]

23 **Exceptions**

Exception	Condition
System.ArgumentNullException	<i>securityElement</i> is null.
System.ArgumentException	<i>securityElement</i> does not contain the encoding for a <code>System.Net.WebPermission</code> instance.

24
25

1
2 **WebPermission.Intersect(System.Security.IP**
3 **ermission) Method**

```
4 [ILAsm]  
5 .method public hidebysig virtual class System.Security.IPermission  
6 Intersect(class System.Security.IPermission target)  
7 [C#]  
8 public override IPermission Intersect(IPermission target)
```

9 **Summary**

10 Returns a new `System.Net.WebPermission` object that is the intersection of the current
11 instance and the specified object.

12 **Parameters**

Parameter	Description
<i>target</i>	A <code>System.Net.WebPermission</code> instance to intersect with the current instance.

13
14 **Return Value**

15 A new `System.Net.WebPermission` instance that represents the intersection of the
16 current instance and *target*. If the intersection is empty, returns `null`. If the current
17 instance is unrestricted, returns a copy of *target*. If *target* is unrestricted, returns a copy
18 of the current instance.

19 **Description**

20 [Note: The intersection of two permissions is a permission that secures the resources
21 and operations secured by both permissions. Specifically, it represents the minimum
22 permission such that any demand that passes both permissions will also pass their
23 intersection.

24
25 This method overrides `System.Security.CodeAccessPermission.Intersect` and is
26 implemented to support the `System.Security.IPermission` interface.

27]
28

29 **Exceptions**

Exception	Condition
<code>System.ArgumentNullException</code>	<i>target</i> is <code>null</code> .

System.ArgumentException

target is not null and is not of type
System.Net.WebPermission.

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2

1
2 **WebPermission.IsSubsetOf(System.Security.I**
3 **Permission) Method**

```
4 [ILAsm]  
5 .method public hidebysig virtual bool IsSubsetOf(class  
6 System.Security.IPermission target)  
  
7 [C#]  
8 public override bool IsSubsetOf(IPermission target)
```

9 **Summary**

10 Determines whether the current instance is a subset of the specified object.

11 **Parameters**

Parameter	Description
<i>target</i>	A System.Net.WebPermission instance that is to be tested for the subset relationship.

12
13 **Return Value**

14 true if the current instance is a subset of *target*; otherwise, false. If target is null,
15 return false. If the current instance is unrestricted, and *target* is not, returns false. If
16 *target* is unrestricted, returns true.

17 **Description**

18 [Note: The current instance is a subset of *target* if the current instance specifies a set of
19 accesses to resources that is wholly contained by *target*. For example, a permission that
20 represents read access to a file is a subset of a permission that represents read and
21 write access to the file.

22
23 If this method returns true, the current instance describes access to internet resources
24 that is also described by *target*.

25
26 This method overrides System.Security.CodeAccessPermission.IsSubsetOf and is
27 implemented to support the System.Security.IPermission interface.

28
29]

30 **Exceptions**

Exception	Condition
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System.ArgumentException

target is not of type System.Net.WebPermission.

1

2

1 WebPermission.ToXml() Method

```
2 [ILAsm]  
3 .method public hidebysig virtual class System.Security.SecurityElement  
4 ToXml()  
5 [C#]  
6 public override SecurityElement ToXml()
```

7 Summary

8 Returns the XML encoding of the current instance.

9 Return Value

10 A System.Security.SecurityElement containing the XML encoding of the state of the
11 current instance.

12 Description

13 [*Note:* For the XML encoding for this class, see the System.Net.WebPermission class
14 page.

15
16 This method overrides System.Security.CodeAccessPermission.ToXml.

17
18]

19

1 2 WebPermission.Union(System.Security.IPerm 3 ission) Method

```
4 [ILAsm]  
5 .method public hidebysig virtual class System.Security.IPermission  
6 Union(class System.Security.IPermission target)  
7  
8 [C#]  
9 public override IPermission Union(IPermission target)
```

9 Summary

10 Returns a new `System.Net.WebPermission` object that is the union of the current
11 instance and the specified object.

12 Parameters

Parameter	Description
<i>target</i>	The <code>System.Net.WebPermission</code> instance to combine with the current instance.

13 14 Return Value

15 A new `System.Net.WebPermission` instance that represents the union of the current
16 instance and *target*. If the current instance or *target* is unrestricted, returns a
17 `System.Net.WebPermission` instance that is unrestricted.

18 Description

19 [Note: The result of a call to `System.Net.WebPermission.Union` is a permission that
20 represents all of the access to permissions represented by the current instance as well
21 as the permissions represented by *target*. Any demand that passes either the current
22 instance or *target* passes their union.

23
24 This method overrides `System.Security.CodeAccessPermission.Union` and is
25 implemented to support the `System.Security.IPermission` interface.

26
27]

28 Exceptions

Exception	Condition
System.ArgumentException	<i>target</i> is not null and is not of type <code>System.Net.WebPermission</code> .

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