

1 System.Net.DnsPermission Class

```
2 [ILAsm]  
3 .class public serializable DnsPermission extends  
4 System.Security.CodeAccessPermission  
  
5 [C#]  
6 public class DnsPermission: 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 Domain Name System (DNS) servers on the network.

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.DnsPermission* 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 DnsPermissionXML ::=

13

14

15 <IPermission

16

17

18 class="

19

20

21 System.Net.DnsPermission,

22

23

24 System,

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26

27 Version=1.0.BuildVersion,

28

29

30 Culture=neutral,

31

32

33 PublicKeyToken=ECMAPubKeyToken"

34

35

36 version="1"

37

38

39 (

40

41

42 Unrestricted="true"/>

43

44

45)

46

1
2 | />
3
4

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

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

9 **Summary**

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

12 **Parameters**

Parameter	Description
<i>state</i>	A System.Security.Permissions.PermissionState 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 DNS
18 information.
19
20]

21 **Exceptions**

Exception	Condition
System.ArgumentException	<i>state</i> is not a valid System.Security.Permissions.PermissionState value.

22
23

1 DnsPermission.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.DnsPermission` object containing the same values as the
8 current instance.

9 Return Value

10 A new `System.Net.DnsPermission` 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 DNS
14 information as the current instance.

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

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DnsPermission.FromXml(System.Security.SecurityElement) Method

```
[ILAsm]
.method public hidebysig virtual void FromXml(class
System.Security.SecurityElement securityElement)

[C#]
public override void FromXml(SecurityElement securityElement)
```

Summary

Reconstructs the state of a System.Net.DnsPermission object using the specified XML encoding.

Parameters

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

Description

The state of the current instance is changed to the state encoded in *securityElement*.
[Note: For the XML encoding for this class, see the System.Net.DnsPermission class page.
This method overrides System.Security.CodeAccessPermission.FromXml.
]

Exceptions

Exception	Condition
System.ArgumentNullException	<i>securityElement</i> is null
System.ArgumentException	<i>securityElement</i> is not a System.Net.DnsPermission element.

DnsPermission.Intersect(System.Security.IPermission) Method

```
[ILAsm]
.method public hidebysig virtual class System.Security.IPermission
Intersect(class System.Security.IPermission target)

[C#]
public override IPermission Intersect(IPermission target)
```

Summary

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

Parameters

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

Return Value

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

Description

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

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

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29

DnsPermission.IsSubsetOf(System.Security.IPermission) Method

```
[ILAsm]
.method public hidebysig virtual bool IsSubsetOf(class
System.Security.IPermission target)

[C#]
public override bool IsSubsetOf(IPermission target)
```

Summary

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

Parameters

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

12

Return Value

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

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

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26]

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1 DnsPermission.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.DnsPermission class
14 page.

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

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DnsPermission.Union(System.Security.IPermission) Method

```
[ILAsm]
.method public hidebysig virtual class System.Security.IPermission
Union(class System.Security.IPermission target)

[C#]
public override IPermission Union(IPermission target)
```

Summary

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

Parameters

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

Return Value

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

Description

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

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

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