

System.Security.Permissions.SecurityPermissionAttribute Class

```
[ILAsm]
.class public sealed serializable SecurityPermissionAttribute
extends System.Security.Permissions.CodeAccessSecurityAttribute

[C#]
public sealed class SecurityPermissionAttribute :
CodeAccessSecurityAttribute
```

Assembly Info:

- *Name:* mscorlib
- *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00]
- *Version:* 2.0.x.x
- *Attributes:*
 - CLSCompliantAttribute(true)

Type Attributes:

- AttributeUsageAttribute(AttributeTargets.Assembly | AttributeTargets.Class | AttributeTargets.Struct | AttributeTargets.Constructor | AttributeTargets.Method, AllowMultiple=true, Inherited=false)

Summary

Used to apply a security action and a set of security permissions to program code.

Inherits From: System.Security.Permissions.CodeAccessSecurityAttribute

Library: BCL

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

Description

[*Note:* The security permissions are defined in the System.Security.Permissions.SecurityPermissionFlag enumeration and are specified using the System.Security.Permissions.SecurityPermissionAttribute.Flags property.

The security information declared by a security attribute is stored in the metadata of the attribute target, and is accessed by the system at run-time. Security attributes are used for declarative security only. For imperative security,

use the corresponding permission class,
`System.Security.Permissions.SecurityPermission.`

The allowable `System.Security.Permissions.SecurityPermissionAttribute` targets are determined by the `System.Security.Permissions.SecurityAction` passed to the constructor.

]

Example

In the following example, the attribute target is an assembly. The attribute declares that the ability to assert permissions on behalf of callers is the minimum permission required for the assembly to execute.

```
[assembly:SecurityPermissionAttribute(SecurityAction.RequestMinimum,
Assertion=true)]
```

SecurityPermissionAttribute(System.Security.Permissions.SecurityAction) Constructor

```
[ILAsm]
public rtspecialname specialname instance void .ctor(valuetype
System.Security.Permissions.SecurityAction action)

[C#]
public SecurityPermissionAttribute(SecurityAction action)
```

Summary

Constructs and initializes a new instance of the `System.Security.Permissions.SecurityPermissionAttribute` class with the specified `System.Security.Permissions.SecurityAction` value.

Parameters

Parameter	Description
<i>action</i>	A <code>System.Security.Permissions.SecurityAction</code> value.

Exceptions

Exception	Condition
System.ArgumentException	<i>action</i> is not a valid <code>System.Security.Permissions.SecurityAction</code> value.

SecurityPermissionAttribute.CreatePermission() Method

```
[ILAsm]  
.method public hidebysig virtual class System.Security.IPermission  
CreatePermission()  
  
[C#]  
public override IPermission CreatePermission()
```

Summary

Returns a new `System.Security.Permissions.SecurityPermission` object that contains the security information of the current instance.

Return Value

A new `System.Security.Permissions.SecurityPermission` object with the security information of the current instance.

Description

[*Note:* Applications typically do not call this method; it is intended for use by the system.

The security information declared by a security attribute is stored in the metadata of the attribute target, and is accessed by the system at run-time. The system uses the object returned by this method to convert the security information of the current instance into the form stored in metadata.

This method overrides
`System.Security.Permissions.SecurityAttribute.CreatePermission.`

]

SecurityPermissionAttribute.Flags Property

```
[ILAsm]  
.property valuetype  
System.Security.Permissions.SecurityPermissionFlag Flags { public  
hidebysig specialname instance valuetype  
System.Security.Permissions.SecurityPermissionFlag get_Flags()  
public hidebysig specialname instance void set_Flags(valuetype  
System.Security.Permissions.SecurityPermissionFlag value) }  
  
[C#]  
public SecurityPermissionFlag Flags { get; set; }
```

Summary

Gets or sets values that define the permissions declared by the current instance.

Property Value

One or more `System.Security.Permissions.SecurityPermissionFlag` values.
To specify multiple values in a set operation, use the bitwise OR operator.