

System.Security.Permissions.SecurityAction Enum

```
[ILAsm]
.class public sealed serializable SecurityAction extends System.Enum

[C#]
public enum SecurityAction
```

Assembly Info:

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

Summary

Specifies security actions that can be performed using declarative security.

Inherits From: System.Enum

Library: BCL

Description

[*Note:* For information about using declarative security and security actions, see Partition II of the CLI Specification.]

[*Note:* Declarative security is specified using types derived from `System.Security.Permissions.SecurityAttribute`. The following table describes the attribute targets supported by each of the security actions.]

Security action	Attribute Targets
Assert	Class, Method
Demand	Class, Method
Deny	Class, Method
InheritanceDemand	Class, Method

LinkDemand	Class, Method
PermitOnly	Class, Method
RequestMinimum	Assembly
RequestOptional	Assembly
RequestRefuse	Assembly

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2 For additional information on attribute targets, see `System.Attribute`.
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4]

5

SecurityAction.Assert Field

```
[ILAsm]  
.field public static literal valuetype  
System.Security.Permissions.SecurityAction Assert = 3  
  
[C#]  
Assert = 3
```

Summary

Specifies that callers of the code performing the assert need not have the permissions specified by the current security attribute, and that a check for any such permission can stop after the code that asserted it. [*Note:* An assert can change the default behavior of a security check (such as that caused by a Demand, LinkDemand, etc.).]

This action can be applied to classes and methods.

[*Note:* This action should only be used by code that can assure that its callers cannot manipulate it to abuse the asserted permission.]

SecurityAction.Demand Field

```
[ILAsm]  
.field public static literal valuetype  
System.Security.Permissions.SecurityAction Demand = 2  
  
[C#]  
Demand = 2
```

Summary

Specified that all callers are required to have the permissions specified by the current security attribute.

This action can be applied to classes and methods.

SecurityAction.Deny Field

```
[ILAsm]  
.field public static literal valuetype  
System.Security.Permissions.SecurityAction Deny = 4  
  
[C#]  
Deny = 4
```

Summary

Specifies that access to the resource or operation described by the current security attribute be denied to callers, even if they have been granted permission to access it. [Note: System.Security.Permissions.SecurityAction.Deny causes a security check for the permissions specified by the current security attribute to fail even when it would otherwise succeed.]

This action can be applied to classes and methods.

1 **SecurityAction.InheritanceDemand Field**

```
2    [ILAsm]  
3    .field public static literal valuetype  
4    System.Security.Permissions.SecurityAction InheritanceDemand = 7  
  
5    [C#]  
6    InheritanceDemand = 7
```

7 **Summary**

8 Specifies the permissions that a derived class is required to have. When the target is a
9 class, classes inheriting from the target are required to have the permissions specified
10 by the current security attribute. When the target is a method, classes overriding the
11 target are required to have the permissions specified by the current security attribute.

12
13 This action can be applied to classes and methods.

SecurityAction.LinkDemand Field

```
[ILAsm]  
.field public static literal valuetype  
System.Security.Permissions.SecurityAction LinkDemand = 6  
  
[C#]  
LinkDemand = 6
```

Summary

Specifies that the immediate caller be required to have the specified permissions.

This action can be applied to classes and methods.

SecurityAction.PermitOnly Field

```
[ILAsm]  
.field public static literal valuetype  
System.Security.Permissions.SecurityAction PermitOnly = 5  
  
[C#]  
PermitOnly = 5
```

Summary

Specifies that access is limited to only those resources or operations specified by the current security attribute, even if the code has been granted permission to access others. A security check for a permission not described by the current security attribute fails regardless of whether or not callers have been granted this permission.

This action can be applied to classes and methods.

SecurityAction.RequestMinimum Field

```
[ILAsm]  
.field public static literal valuetype  
System.Security.Permissions.SecurityAction RequestMinimum = 8  
  
[C#]  
RequestMinimum = 8
```

Summary

Specifies that the current security attribute describes the minimum permissions required for an assembly to run.

This action can be applied to assemblies.

SecurityAction.RequestOptional Field

```
[ILAsm]  
.field public static literal valuetype  
System.Security.Permissions.SecurityAction RequestOptional = 9  
  
[C#]  
RequestOptional = 9
```

Summary

Specifies that the current security attribute describes optional permissions that an assembly can be granted.

This action can be applied to assemblies.

SecurityAction.RequestRefuse Field

```
[ILAsm]  
.field public static literal valuetype  
System.Security.Permissions.SecurityAction RequestRefuse = 10  
  
[C#]  
RequestRefuse = 10
```

Summary

Specifies that the current security attribute describes resources or operations that an assembly cannot access.

This action can be applied to assemblies.