

# 1 System.Security.Permissions.SecurityAction

## 2 Enum

```
3 [ILAsm]  
4 .class public sealed serializable SecurityAction extends System.Enum  
  
5 [C#]  
6 public enum SecurityAction
```

### 7 Assembly Info:

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

### 13 Summary

14 Specifies security actions that can be performed using declarative security.

### 15 Inherits From: System.Enum

16  
17 **Library:** BCL

### 19 Description

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

22  
23  
24  
25 [Note: Declarative security is specified using types derived from  
26 System.Security.Permissions.SecurityAttribute. The following table describes the  
27 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      |

1  
2 For additional information on attribute targets, see `System.Attribute`.  
3  
4 ]

5

# 1 SecurityAction.Assert Field

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

## 7 Summary

8 Specifies that callers of the code performing the assert need not have the permissions  
9 specified by the current security attribute, and that a check for any such permission can  
10 stop after the code that asserted it. [*Note:* An assert can change the default behavior of  
11 a security check (such as that caused by a Demand, LinkDemand, etc.).]  
12  
13

14  
15 This action can be applied to classes and methods.

16  
17 [*Note:* This action should only be used by code that can assure that its callers cannot  
18 manipulate it to abuse the asserted permission.]  
19  
20

21

# 1 SecurityAction.Demand Field

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

## 7 Summary

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

10  
11 This action can be applied to classes and methods.

12

# 1 SecurityAction.Deny Field

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

## 7 Summary

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

13  
14  
15

16 This action can be applied to classes and methods.

17

# 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.

14

# 1 SecurityAction.LinkDemand Field

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

## 7 Summary

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

9

10 This action can be applied to classes and methods.

11

# 1 SecurityAction.PermitOnly Field

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

## 7 Summary

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

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

14

# 1 SecurityAction.RequestMinimum Field

```
2 [ILAsm]  
3 .field public static literal valuetype  
4 System.Security.Permissions.SecurityAction RequestMinimum = 8  
  
5 [C#]  
6 RequestMinimum = 8
```

## 7 Summary

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

10  
11 This action can be applied to assemblies.

12

# 1 SecurityAction.RequestOptional Field

```
2 [ILAsm]  
3 .field public static literal valuetype  
4 System.Security.Permissions.SecurityAction RequestOptional = 9  
  
5 [C#]  
6 RequestOptional = 9
```

## 7 Summary

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

10  
11 This action can be applied to assemblies.

12

# 1 SecurityAction.RequestRefuse Field

```
2 [ILAsm]  
3 .field public static literal valuetype  
4 System.Security.Permissions.SecurityAction RequestRefuse = 10  
  
5 [C#]  
6 RequestRefuse = 10
```

## 7 Summary

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

10

11 This action can be applied to assemblies.

12