

# Namespace DouglasDwyer.CasCore

## Classes

▼ Filter by title

### AssemblyBinding (DouglasDwyer.CasCore.AssemblyBinding.html)

Facilitates selecting members of an assembly to include in a CasPolicy (DouglasDwyer.CasCore.CasPolicy.html).

Accessibility

### CasAssemblyLoader (DouglasDwyer.CasCore.CasAssemblyLoader.html)

AssemblyBinding

Provides scoped assembly loading with the same semantics as AssemblyLoadContext

(DouglasDwyer.CasCore.AssemblyB

(<https://learn.microsoft.com/dotnet/api/system.runtime.loader.assemblyloadcontext>). Any assemblies loaded

CasAssemblyLoader

with this context will be subject to its CasPolicy (DouglasDwyer.CasCore.CasPolicy.html), and any attempts to

(DouglasDwyer.CasCore.CasAssem

access unwhitelisted external fields/methods will throw exceptions.

CasPolicyBuilder

### CasPolicy (DouglasDwyer.CasCore.CasPolicy.html)

(DouglasDwyer.CasCore.CasPolicyB

Defines a set of whitelisted fields and methods that sandboxed assemblies may access.

CasPolicyBuilderExtensions

(DouglasDwyer.CasCore.CasPolicyB

### CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)

ExceptionViolationHandler

Allows for specifying the list of fields and methods that a sandboxed assembly may access.

ICasViolationHandler

(DouglasDwyer.CasCore.ICasViolati

### CasPolicyBuilderExtensions

### (DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html)

Provides a set of methods for whitelisting C# standard library members.

### ExceptionViolationHandler

### (DouglasDwyer.CasCore.ExceptionViolationHandler.html)

Raises a security exception whenever a CAS violation occurs.

### TypeBinding (DouglasDwyer.CasCore.TypeBinding.html)

Facilitates selecting particular members of a type to include in a CasPolicy

(DouglasDwyer.CasCore.CasPolicy.html).

## Interfaces

### ICasViolationHandler (DouglasDwyer.CasCore.ICasViolationHandler.html)

Event handler that is invoked when an assembly attempts to access a field or method without permission.

# Enums

## Accessibility (DouglasDwyer.CasCore.Accessibility.html)

Identifies a member of subset of members by their external visibility.



### - DouglasDwyer.CasCore (DouglasDwyer.CasCore.html)

Accessibility  
(DouglasDwyer.CasCore.Accessibility.html)  
AssemblyBinding  
(DouglasDwyer.CasCore.AssemblyBinding.html)  
CasAssemblyLoader  
(DouglasDwyer.CasCore.CasAssemblyLoader.html)  
CasPolicy  
(DouglasDwyer.CasCore.CasPolicy.html)  
CasPolicyBuilder  
(DouglasDwyer.CasCore.CasPolicyBuilder.html)  
CasPolicyBuilderExtensions  
(DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html)  
ExceptionViolationHandler  
(DouglasDwyer.CasCore.ExceptionViolationHandler.html)  
ICasViolationHandler  
(DouglasDwyer.CasCore.ICasViolationHandler.html)  
TypeBinding  
(DouglasDwyer.CasCore.TypeBinding.html)

# Enum Accessibility

Identifies a member of subset of members by their external visibility.

▼ Filter by title

**Namespace:** DouglasDwyer (DouglasDwyer.html).CasCore (DouglasDwyer.CasCore.html)

**Assembly:** DouglasDwyer.CasCore

**Symbol:** (DouglasDwyer.CasCore.html)

Accessibility  
public enum Accessibility  
(DouglasDwyer.CasCore.Accessibility)  
AssemblyBinding  
(DouglasDwyer.CasCore.AssemblyBinding)  
CasAssemblyLoader  
(DouglasDwyer.CasCore.CasAssemblyLoader)  
**Fields**  
CasPolicy  
(DouglasDwyer.CasCore.CasPolicy)

Name	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder)	
NonPublic (DouglasDwyer.CasCore.CasPolicyBuilderExtensions)	Identifies non-public members.
Private (DouglasDwyer.CasCore.CasPolicyBuilderExtensions)	Identifies all members.
Protected (DouglasDwyer.CasCore.CasPolicyBuilderExtensions)	Identifies all public or family members.
Public (DouglasDwyer.CasCore.CasPolicyBuilderExtensions)	Identifies all public members.

(DouglasDwyer.CasCore.ICasViolationHandler)  
TypeBinding  
(DouglasDwyer.CasCore.TypeBinding)

# Class AssemblyBinding

Facilitates selecting members of an assembly to include in a CasPolicy (DouglasDwyer.CasCore.CasPolicy.html).

▼ Filter by title

## Inheritance

↳ **DouglasDwyer.CasCore**  
(**DouglasDwyer.CasCore.html**)

## Implements

Accessibility  
(DouglasDwyer.CasCore.Accessibility.html)  
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1) <MemberInfo  
(https://learn.microsoft.com/dotnet/api/system.reflection.memberinfo)>  
(DouglasDwyer.CasCore.AssemblyBinding.html)  
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.ienumerable)  
CasAssemblyLoader

## Inherited Members

CasPolicy  
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))  
(DouglasDwyer.CasCore.CasPolicy.html)  
CasPolicyBuilder  
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object, system-object))  
(DouglasDwyer.CasCore.CasPolicyBuilder.html)  
CasPolicyBuilderExtensions  
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)  
(DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html)  
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)  
(DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html)  
ExceptionViolationHandler  
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)  
(DouglasDwyer.CasCore.ExceptionViolationHandler.html)  
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)  
(DouglasDwyer.CasCore.ExceptionViolationHandler.html)  
ICasViolationHandler  
**Namespace:** DouglasDwyer (DouglasDwyer.html).CasCore (DouglasDwyer.CasCore.html)  
(DouglasDwyer.CasCore.ICasViolationHandler.html)  
**Assembly:** CasCore.dll

## Syntax

```
public sealed class AssemblyBinding : IEnumerable<MemberInfo>, IEnumerable
```

## Constructors

### AssemblyBinding(Assembly, Accessibility)

Creates a new binding that selects all members with the provided visibility in the assembly.

#### Declaration

```
public AssemblyBinding(Assembly assembly, Accessibility accessibility)
```

#### Parameters

Type	Name	Description
Assembly ( <a href="https://learn.microsoft.com/dotnet/api/system.reflection.assembly">https://learn.microsoft.com/dotnet/api/system.reflection.assembly</a> )	<i>assembly</i>	The assembly containing types to include.
Accessibility (DouglasDwyer.CasCore.Accessibility.html)	<i>accessibility</i>	Which subset of members should be visible.

- **DouglasDwyer.CasCore**  
(**DouglasDwyer.CasCore.html**)

## Methods

Accessibility  
(DouglasDwyer.CasCore.Accessibility.html)  
AssemblyBinding  
(DouglasDwyer.CasCore.AssemblyBinding.html)  
CasAssemblyLoader  
(DouglasDwyer.CasCore.CasAssemblyLoader.html)

Returns an enumerator that iterates through the collection.

CasPolicy  
(DouglasDwyer.CasCore.CasPolicy.html)

CasPolicyBuilder  
(DouglasDwyer.CasCore.CasPolicyBuilder.html)

public IEnumerator<MemberInfo> GetEnumerator()  
(DouglasDwyer.CasCore.CasPolicyBuilder.html)

CasPolicyBuilderExtensions  
(DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html)

ExceptionViolationHandler  
(DouglasDwyer.CasCore.ExceptionViolationHandler.html)

ICasViolationHandler  
(DouglasDwyer.CasCore.ICasViolationHandler.html)

ICasViolationHandler  
(<https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerator>)

ICasViolationHandler  
(<https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerator>)

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ICasViolationHandler  
(<https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerator>)

Type	Description
ICasViolationHandler ( <a href="https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerator">https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerator</a> )	An enumerator that can be used to iterate through the collection.

## Implements

IEnumerable<T> (<https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1>)

IEnumerable (<https://learn.microsoft.com/dotnet/api/system.collections.ienumerable>)

# Class CasAssemblyLoader

Provides scoped assembly loading with the same semantics as AssemblyLoadContext

(<https://learn.microsoft.com/dotnet/api/system.runtime.loader.assemblyloadcontext>). Any assemblies loaded with this context will be subject to its CasPolicy (DouglasDwyer.CasCore.CasPolicy.html), and any attempts to access unwhitelisted external fields/methods will throw exceptions.

## - DouglasDwyer.CasCore

### (DouglasDwyer.CasCore.html)

#### Inheritance

Accessibility  
↳ object (<https://learn.microsoft.com/dotnet/api/system.object>)  
↳ VerifiableAssemblyLoader  
↳ AssemblyBinding  
↳ CasAssemblyLoader  
↳ DouglasDwyer.CasCore.AssemblyB

#### Inherited Members

(DouglasDwyer.CasCore.CasAssembl  
VerifiableAssemblyLoader.LoadFromAssemblyName(AssemblyName)  
CasPolicy  
(<https://learn.microsoft.com/dotnet/api/system.reflection.assemblyname>)  
(DouglasDwyer.CasCore.CasPolicy.I  
VerifiableAssemblyLoader.LoadFromStream(Stream) (<https://learn.microsoft.com/dotnet/api/system.io.stream>)  
CasPolicyBuilder  
VerifiableAssemblyLoader.LoadFromAssemblyPath(string) (<https://learn.microsoft.com/dotnet/api/system.string>)  
(DouglasDwyer.CasCore.CasPolicyB  
VerifiableAssemblyLoader.SetProfileOptimizationRoot(string)  
CasPolicyBuilderExtensions  
(<https://learn.microsoft.com/dotnet/api/system.string>)  
(DouglasDwyer.CasCore.CasPolicyB  
VerifiableAssemblyLoader.StartProfileOptimization(string) (<https://learn.microsoft.com/dotnet/api/system.string>)  
ExceptionViolationHandler  
VerifiableAssemblyLoader.Unload()  
(DouglasDwyer.CasCore.ExceptionV  
VerifiableAssemblyLoader.LoadUnmanagedDllFromPath(string)  
ICasViolationHandler  
(<https://learn.microsoft.com/dotnet/api/system.string>)  
(DouglasDwyer.CasCore.ICasViolati  
VerifiableAssemblyLoader.IsCollectible  
TypeBinding  
VerifiableAssemblyLoader.Name  
(DouglasDwyer.CasCore.TypeBindir  
VerifiableAssemblyLoader.Resolving  
VerifiableAssemblyLoader.ResolvingUnmanagedDll  
VerifiableAssemblyLoader.Unloading  
object.Equals(object) ([https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals\(system-object\)](https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object)))  
object.Equals(object, object) ([https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals\(system-object-system-object\)](https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object)))  
object.GetHashCode() (<https://learn.microsoft.com/dotnet/api/system.object.gethashcode>)  
object.GetType() (<https://learn.microsoft.com/dotnet/api/system.object.gettype>)  
object.MemberwiseClone() (<https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone>)  
object.ReferenceEquals(object, object) (<https://learn.microsoft.com/dotnet/api/system.object.referenceequals>)  
object.ToString() (<https://learn.microsoft.com/dotnet/api/system.object.tostring>)

**Namespace:** DouglasDwyer (DouglasDwyer.html).CasCore (DouglasDwyer.CasCore.html)

**Assembly:** CasCore.dll

#### Syntax

```
public class CasAssemblyLoader : VerifiableAssemblyLoader
```

# Constructors

## CasAssemblyLoader(CasPolicy)

Creates a new loader with the given policy.



### Declaration

- **DouglasDwyer.CasCore**  
`public CasAssemblyLoader(CasPolicy policy)`  
**(DouglasDwyer.CasCore.html)**

Accessibility  
(DouglasDwyer.CasCore.Accessibility.html)

### Parameters

Type	Name	Description
AssemblyBinding (DouglasDwyer.CasCore.AssemblyBinding.html) CasAssemblyLoader (DouglasDwyer.CasCore.CasAssemblyLoader.html)	<i>policy</i>	The policy that will apply to any assemblies created with this loader.

CasPolicy  
(DouglasDwyer.CasCore.CasPolicy.html)

## CasAssemblyLoader(CasPolicy, bool)

Creates a new loader with the given policy.  
CasPolicyBuilderExtensions

(DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html)  
Declaration  
ExceptionViolationHandler  
(DouglasDwyer.CasCore.ExceptionViolationHandler.html)  
`public CasAssemblyLoader(CasPolicy policy, bool isCollectible)`  
ICasViolationHandler  
(DouglasDwyer.CasCore.ICasViolationHandler.html)

### Parameters

Type	Name	Description
CasPolicy (DouglasDwyer.CasCore.CasPolicy.html)	<i>policy</i>	The policy that will apply to any assemblies created with this loader.
bool ( <a href="https://learn.microsoft.com/dotnet/api/system.boolean">https://learn.microsoft.com/dotnet/api/system.boolean</a> )	<i>isCollectible</i>	Whether this context should be able to unload.

## CasAssemblyLoader(CasPolicy, string, bool)

Creates a new loader with the given policy.

### Declaration

```
public CasAssemblyLoader(CasPolicy policy, string name, bool isCollectible)
```

### Parameters

Type	Name	Description
CasPolicy (DouglasDwyer.CasCore.CasPolicy.html)	<i>policy</i>	The policy that will apply to any assemblies created with this loader.
string ( <a href="https://learn.microsoft.com/dotnet/api/system.string">https://learn.microsoft.com/dotnet/api/system.string</a> )	<i>name</i>	The display name of the load context.
<b>DouglasDwyer.CasCore</b> ( <a href="https://learn.microsoft.com/dotnet/api/system.boolean">https://learn.microsoft.com/dotnet/api/system.boolean</a> )	<i>isCollectible</i>	Whether this context should be able to unload.

Accessibility  
(DouglasDwyer.CasCore.Accessibility.html)  
AssemblyBinding  
(DouglasDwyer.CasCore.AssemblyBinding.html)  
PolicyLoader  
(DouglasDwyer.CasCore.CasAssemblyPolicyLoader.html)  
CasPolicy  
(DouglasDwyer.CasCore.CasPolicy.html)  
CasPolicyBuilder  
(DouglasDwyer.CasCore.CasPolicyBuilder.html)  
CasPolicyBuilderExtensions  
(DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html)  
ExceptionViolationHandler  
(DouglasDwyer.CasCore.ExceptionViolationHandler.html)  
ICasViolationHandler  
(DouglasDwyer.CasCore.ICasViolationHandler.html)  
TypeBinding  
(DouglasDwyer.CasCore.TypeBinding.html)

## Properties

### ViolationHandler

The handler that will be invoked whenever a sandboxed assembly accesses a field/method without permission. By default, this is a `ExceptionViolationHandler` ([DouglasDwyer.CasCore.ExceptionViolationHandler.html](#)) that will throw an exception.

### Declaration

```
public ICasViolationHandler ViolationHandler { get; set; }
```

([DouglasDwyer.CasCore.ICasViolationHandler.html](#))

### Property Value

Type	Description
ICasViolationHandler ( <a href="#">DouglasDwyer.CasCore.ICasViolationHandler.html</a> )	

## Methods

### InstrumentAssembly(AssemblyDefinition)

Adds verification guards to all methods in the assembly. The first time that any method is invoked, it will call the verifier on itself.

### Declaration

```
protected override void InstrumentAssembly(AssemblyDefinition assembly)
```

### Parameters





Type	Name	Description
Stream ( <a href="https://learn.microsoft.com/dotnet/api/system.io.stream">https://learn.microsoft.com/dotnet/api/system.io.stream</a> )	<i>assembly</i>	A byte array that is a COFF-based image containing a managed assembly.
Stream ( <a href="https://learn.microsoft.com/dotnet/api/system.io.stream">https://learn.microsoft.com/dotnet/api/system.io.stream</a> )	<i>assemblySymbols</i>	A byte array that contains the raw bytes representing the symbols for the assembly.

**- DouglasDwyer.CasCore**  
**(DouglasDwyer.CasCore.html)**

Returns

Type	Description
AssemblyBinding ( <a href="https://learn.microsoft.com/dotnet/api/system.reflection.assembly">https://learn.microsoft.com/dotnet/api/system.reflection.assembly</a> ) (DouglasDwyer.CasCore.AssemblyBinding)	The loaded assembly.

Overrides

VerifiableAssemblyLoader.LoadFromStream(Stream, Stream)  
(DouglasDwyer.CasCore.CasAssemblyLoader)  
CasPolicy  
(<https://learn.microsoft.com/dotnet/api/system.io.stream>)  
(DouglasDwyer.CasCore.CasPolicyBuilder)  
CasPolicyBuilder

**LoadUnmanagedDll(string)**

(DouglasDwyer.CasCore.CasPolicyBuilderExtensions)  
Allows a derived class to load an unmanaged library by name.  
(DouglasDwyer.CasCore.CasPolicyBuilderExtensions)

Declaration

ExceptionViolationHandler  
(DouglasDwyer.CasCore.ExceptionViolationHandler)  
ICasViolationHandler  
protected override nint LoadUnmanagedDll(string unmanagedDllName)  
(DouglasDwyer.CasCore.ICasViolationHandler)  
TypeBinding  
(DouglasDwyer.CasCore.TypeBinding)

Parameters

Type	Name	Description
string ( <a href="https://learn.microsoft.com/dotnet/api/system.string">https://learn.microsoft.com/dotnet/api/system.string</a> )	<i>unmanagedDllName</i>	Name of the unmanaged library. Typically this is the filename without its path or extensions.

Returns

Type	Description
nint ( <a href="https://learn.microsoft.com/dotnet/api/system.intptr">https://learn.microsoft.com/dotnet/api/system.intptr</a> )	A handle to the loaded library, or Zero ( <a href="https://learn.microsoft.com/dotnet/api/system.intptr.zero">https://learn.microsoft.com/dotnet/api/system.intptr.zero</a> ).

Overrides

VerifiableAssemblyLoader.LoadUnmanagedDll(string) (<https://learn.microsoft.com/dotnet/api/system.string>)



- **DouglasDwyer.CasCore**  
**(DouglasDwyer.CasCore.html)**

Accessibility

(DouglasDwyer.CasCore.Accessibilit

AssemblyBinding

(DouglasDwyer.CasCore.AssemblyB

CasAssemblyLoader

(DouglasDwyer.CasCore.CasAssembl

CasPolicy

(DouglasDwyer.CasCore.CasPolicy.h

CasPolicyBuilder

(DouglasDwyer.CasCore.CasPolicyB

CasPolicyBuilderExtensions

(DouglasDwyer.CasCore.CasPolicyB

ExceptionViolationHandler

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ICasViolationHandler

(DouglasDwyer.CasCore.ICasViolati

TypeBinding

(DouglasDwyer.CasCore.TypeBindir

# Class CasPolicy

Defines a set of whitelisted fields and methods that sandboxed assemblies may access.

▼ Filter by title

## Inheritance

🔍 **DouglasDwyer.CasCore**  
🔍 **(DouglasDwyer.CasCore.html)**

## Inherited Members

(DouglasDwyer.CasCore.Accessibility)  
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))  
AssemblyBinding  
(DouglasDwyer.CasCore.AssemblyBinding)  
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))  
CasAssemblyLoader  
equals(system-object-system-object)  
(DouglasDwyer.CasCore.CasAssemblyLoader)  
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)  
CasPolicy  
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)  
(DouglasDwyer.CasCore.CasPolicy)  
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)  
CasPolicyBuilder  
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)  
(DouglasDwyer.CasCore.CasPolicyBuilder)

**NameSpace:** DouglasDwyer (DouglasDwyer.html).CasCore (DouglasDwyer.CasCore.html)

**Assembly:** DouglasDwyer.CasCore.CasPolicyBuilder

**Syntax**  
ExceptionViolationHandler  
(DouglasDwyer.CasCore.ExceptionViolationHandler)  
ICasViolationHandler  
public sealed class CasPolicy  
(DouglasDwyer.CasCore.ICasViolationHandler)  
TypeBinding  
(DouglasDwyer.CasCore.TypeBinding)

# Class CasPolicyBuilder

Allows for specifying the list of fields and methods that a sandboxed assembly may access.

▼ Filter by title

## Inheritance

↳ **DouglasDwyer.CasCore**  
([DouglasDwyer.CasCore.html](#))

## Inherited Members

([DouglasDwyer.CasCore.Accessibility](#))  
object.Equals(object) ([https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals\(system-object\)](#))  
AssemblyBinding  
([DouglasDwyer.CasCore.AssemblyBinding](#))  
object.Equals(object, object) ([https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals\(system-object-system-object\)](#))  
CasAssemblyLoader  
([DouglasDwyer.CasCore.CasAssemblyLoader](#))  
object.GetHashCode() ([https://learn.microsoft.com/dotnet/api/system.object.gethashcode](#))  
CasPolicy  
([DouglasDwyer.CasCore.CasPolicy](#))  
object.GetType() ([https://learn.microsoft.com/dotnet/api/system.object.gettype](#))  
([DouglasDwyer.CasCore.CasPolicyBuilder](#))  
object.ReferenceEquals(object, object) ([https://learn.microsoft.com/dotnet/api/system.object.referenceequals](#))  
CasPolicyBuilder  
([DouglasDwyer.CasCore.CasPolicyBuilder](#))  
object.ToString() ([https://learn.microsoft.com/dotnet/api/system.object.tostring](#))  
([DouglasDwyer.CasCore.CasPolicyBuilder](#))

**NameSpace:** [DouglasDwyer \(DouglasDwyer.html\)](#).[CasCore \(DouglasDwyer.CasCore.html\)](#)

**Assembly:** [DouglasDwyer.CasCore.CasPolicyBuilder](#)

## Syntax

ExceptionViolationHandler  
([DouglasDwyer.CasCore.ExceptionViolationHandler](#))  
ICasViolationHandler  
public sealed class CasPolicyBuilder  
([DouglasDwyer.CasCore.ICasViolationHandler](#))  
TypeBinding  
([DouglasDwyer.CasCore.TypeBinding](#))

## Constructors

### CasPolicyBuilder()

Creates a new policy builder. By default, all access to external APIs is denied.

#### Declaration

```
public CasPolicyBuilder()
```

## Methods

### Allow(IEnumerable<MemberInfo>)

Allows the given set of members to be accessed by sandboxed assemblies.

#### Declaration

```
public CasPolicyBuilder Allow(IEnumerable<MemberInfo> members)
```

## Parameters

Type	Name	Description
IEnumerable ( <a href="https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1">https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1</a> ) < DouglasDwyer.CasCore (DouglasDwyer.CasCore.html) MemberInfo ( <a href="https://learn.microsoft.com/dotnet/api/system.reflection.memberinfo">https://learn.microsoft.com/dotnet/api/system.reflection.memberinfo</a> ) Accessibility > (DouglasDwyer.CasCore.Accessibili	members	The members to allow.

## AssemblyBinding

(DouglasDwyer.CasCore.AssemblyB

## Returns

Type	Description
CasAssemblyLoader (DouglasDwyer.CasCore.CasAssemblyLoader.html)	
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	This builder, with the additional members added.

# CasPolicyBuilder

(DouglasDwyer.CasCore.CasPolicyB

## CasPolicyBuilderExtensions

## How(MemberInfo)

## Allow(MemberInfo)

## ExceptionViolationHandler

Allows the given member to be accessed by sandboxed assemblies.

(DouglasDwyer.CasCore.ExceptionV

## DeclarationViolationHandler

(DouglasDwyer.CasCore.ICasViolati

## TypeBinding

```
public CasPolicyBuilder Allow(MemberInfo member)
```

(DouglasDwyer.CasCore.TypeBindir

## Parameters

Type		Name	Description
MemberInfo ( <a href="https://learn.microsoft.com/dotnet/api/system.reflection.memberinfo">https://learn.microsoft.com/dotnet/api/system.reflection.memberinfo</a> )		<i>member</i>	The member to allow.

## Returns

Type		Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)		This builder, with the additional member added.

## Build()

Bakes the list of accessible members into a CasPolicy (DouglasDwyer.CasCore.CasPolicy.html) that may be used to instantiate assemblies.

## Declaration

```
public CasPolicy Build()
```

#### Returns

Type	Description
CasPolicy (DouglasDwyer.CasCore.CasPolicy.html)	The policy that was generated.

#### - DouglasDwyer.CasCore

(DouglasDwyer.CasCore.html)

#### Deny(IEnumerable<MemberInfo>)

Accessibility

(DouglasDwyer.CasCore.Accessibility) Prevents the given members from being accessed by sandboxed assemblies.

AssemblyBinding

Declaration (DouglasDwyer.CasCore.AssemblyBinding)

CasAssemblyLoader

(DouglasDwyer.CasCore.CasAssemblyLoader) public Deny(IEnumerable<MemberInfo> members)

CasPolicy

(DouglasDwyer.CasCore.CasPolicy.html)

#### Parameters

CasPolicyBuilder

Type	Name	Description
(DouglasDwyer.CasCore.CasPolicyBuilder) CasPolicyBuilderExtensions	<i>members</i>	The members to deny.
IEnumerable (DouglasDwyer.CasCore.CasPolicyBuilder) (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1) ExceptionViolationHandler		
< (DouglasDwyer.CasCore.ExceptionViolationHandler) MemberInfo (https://learn.microsoft.com/dotnet/api/system.reflection.memberinfo) (DouglasDwyer.CasCore.ICasViolationHandler) >		
TypeBinding		

(DouglasDwyer.CasCore.TypeBinding)

#### Returns

Type	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	This builder, with any relevant members removed if they were present.

#### Deny(MemberInfo)

Prevents the given member from being accessed by sandboxed assemblies.

#### Declaration

```
public CasPolicyBuilder Deny(MemberInfo member)
```

#### Parameters

Type	Name	Description
MemberInfo (https://learn.microsoft.com/dotnet/api/system.reflection.memberinfo)	<i>member</i>	The member to deny.

## Returns

Type	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	This builder, with the member removed if it was present.



## Extension Methods

### - DouglasDwyer.CasCore

CasPolicyBuilderExtensions.WithDefaultSandbox(CasPolicyBuilder)

(DouglasDwyer.CasCore.html)

(DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer\_CasCore\_CasPolicyBuilderExtensions\_Wit  
hDefaultSandbox\_DouglasDwyer\_CasCore\_CasPolicyBuilder\_)

CasPolicyBuilderExtensions.WithSandboxedRuntimeReflection(CasPolicyBuilder)

(DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer\_CasCore\_CasPolicyBuilderExtensions\_Wit  
hSandboxedRuntimeReflection\_DouglasDwyer\_CasCore\_CasPolicyBuilder\_)

CasPolicyBuilderExtensions.WithSandboxedSystem(CasPolicyBuilder)

(DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer\_CasCore\_CasPolicyBuilderExtensions\_Wit  
hSandboxedSystem\_DouglasDwyer\_CasCore\_CasPolicyBuilder\_)

CasPolicyBuilderExtensions.WithSandboxedSystemCollections(CasPolicyBuilder)

(DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer\_CasCore\_CasPolicyBuilderExtensions\_Wit  
hSandboxedSystemCollections\_DouglasDwyer\_CasCore\_CasPolicyBuilder\_)

CasPolicyBuilderExtensions.WithSandboxedSystemCollectionsConcurrent(CasPolicyBuilder)

(DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer\_CasCore\_CasPolicyBuilderExtensions\_Wit  
hSandboxedSystemCollectionsConcurrent\_DouglasDwyer\_CasCore\_CasPolicyBuilder\_)

CasPolicyBuilderExtensions.WithSandboxedSystemCollectionsImmutable(CasPolicyBuilder)

(DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer\_CasCore\_CasPolicyBuilderExtensions\_Wit  
hSandboxedSystemCollectionsImmutable\_DouglasDwyer\_CasCore\_CasPolicyBuilder\_)

CasPolicyBuilderExtensions.WithSandboxedSystemCollectionsNonGeneric(CasPolicyBuilder)

(DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer\_CasCore\_CasPolicyBuilderExtensions\_Wit  
hSandboxedSystemCollectionsNonGeneric\_DouglasDwyer\_CasCore\_CasPolicyBuilder\_)

CasPolicyBuilderExtensions.WithSandboxedSystemCollectionsSpecialized(CasPolicyBuilder)

(DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer\_CasCore\_CasPolicyBuilderExtensions\_Wit  
hSandboxedSystemCollectionsSpecialized\_DouglasDwyer\_CasCore\_CasPolicyBuilder\_)

CasPolicyBuilderExtensions.WithSandboxedSystemComponentModelTypeConverter(CasPolicyBuilder)

(DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer\_CasCore\_CasPolicyBuilderExtensions\_Wit  
hSandboxedSystemComponentModelTypeConverter\_DouglasDwyer\_CasCore\_CasPolicyBuilder\_)

CasPolicyBuilderExtensions.WithSandboxedSystemConsole(CasPolicyBuilder)

(DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer\_CasCore\_CasPolicyBuilderExtensions\_Wit  
hSandboxedSystemConsole\_DouglasDwyer\_CasCore\_CasPolicyBuilder\_)

CasPolicyBuilderExtensions.WithSandboxedSystemDiagnosticsDiagnosticSource(CasPolicyBuilder)

(DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer\_CasCore\_CasPolicyBuilderExtensions\_Wit  
hSandboxedSystemDiagnosticsDiagnosticSource\_DouglasDwyer\_CasCore\_CasPolicyBuilder\_)

CasPolicyBuilderExtensions.WithSandboxedSystemLinq(CasPolicyBuilder)

(DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer\_CasCore\_CasPolicyBuilderExtensions\_Wit  
hSandboxedSystemLinq\_DouglasDwyer\_CasCore\_CasPolicyBuilder\_)

CasPolicyBuilderExtensions.WithSandboxedSystemLinqExpressions(CasPolicyBuilder)

(DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer\_CasCore\_CasPolicyBuilderExtensions\_Wit  
hSandboxedSystemLinqExpressions\_DouglasDwyer\_CasCore\_CasPolicyBuilder\_)



CasPolicyBuilderExtensions.WithSandboxedSystemLinqParallel(CasPolicyBuilder)  
 (DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer\_CasCore\_CasPolicyBuilderExtensions\_Wit  
 hSandboxedSystemLinqParallel\_DouglasDwyer\_CasCore\_CasPolicyBuilder\_)  
 CasPolicyBuilderExtensions.WithSandboxedSystemLinqQueryable(CasPolicyBuilder)  
 (DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer\_CasCore\_CasPolicyBuilderExtensions\_Wit  
 hSandboxedSystemLinqQueryable\_DouglasDwyer\_CasCore\_CasPolicyBuilder\_)  
 CasPolicyBuilderExtensions.WithSandboxedSystemObjectModel(CasPolicyBuilder)  
 (DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer\_CasCore\_CasPolicyBuilderExtensions\_Wit  
 hSandboxedSystemObjectModel\_DouglasDwyer\_CasCore\_CasPolicyBuilder\_)  
 CasPolicyBuilderExtensions.WithSandboxedSystemReflectionTypeExtensions(CasPolicyBuilder)  
 (DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer\_CasCore\_CasPolicyBuilderExtensions\_Wit  
 hSandboxedSystemReflectionTypeExtensions\_DouglasDwyer\_CasCore\_CasPolicyBuilder\_)  
 CasPolicyBuilderExtensions.WithSandboxedSystemRuntimeNumerics(CasPolicyBuilder)  
 (DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer\_CasCore\_CasPolicyBuilderExtensions\_Wit  
 hSandboxedSystemRuntimeNumerics\_DouglasDwyer\_CasCore\_CasPolicyBuilder\_)  
 CasPolicyBuilderExtensions.WithSandboxedSystemRuntimeSerializationFormatters(CasPolicyBuilder)  
 (DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer\_CasCore\_CasPolicyBuilderExtensions\_Wit  
 hSandboxedSystemRuntimeSerializationFormatters\_DouglasDwyer\_CasCore\_CasPolicyBuilder\_)  
 CasPolicyBuilderExtensions.WithSandboxedSystemTextJson(CasPolicyBuilder)  
 (DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer\_CasCore\_CasPolicyBuilderExtensions\_Wit  
 hSandboxedSystemTextJson\_DouglasDwyer\_CasCore\_CasPolicyBuilder\_)  
 CasPolicyBuilderExtensions.WithSandboxedSystemTextRegularExpressions(CasPolicyBuilder)  
 (DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer\_CasCore\_CasPolicyBuilderExtensions\_Wit  
 hSandboxedSystemTextRegularExpressions\_DouglasDwyer\_CasCore\_CasPolicyBuilder\_)  
 CasPolicyBuilderExtensions.WithSandboxedSystemThreading(CasPolicyBuilder)  
 (DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer\_CasCore\_CasPolicyBuilderExtensions\_Wit  
 hSandboxedSystemThreading\_DouglasDwyer\_CasCore\_CasPolicyBuilder\_)  
 CasPolicyBuilderExtensions.WithSandboxedSystemThreadingChannels(CasPolicyBuilder)  
 (DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer\_CasCore\_CasPolicyBuilderExtensions\_Wit  
 hSandboxedSystemThreadingChannels\_DouglasDwyer\_CasCore\_CasPolicyBuilder\_)  
 CasPolicyBuilderExtensions.WithSandboxedSystemThreadingTasksDataflow(CasPolicyBuilder)  
 (DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer\_CasCore\_CasPolicyBuilderExtensions\_Wit  
 hSandboxedSystemThreadingTasksDataflow\_DouglasDwyer\_CasCore\_CasPolicyBuilder\_)  
 CasPolicyBuilderExtensions.WithSandboxedSystemThreadingTasksParallel(CasPolicyBuilder)  
 (DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer\_CasCore\_CasPolicyBuilderExtensions\_Wit  
 hSandboxedSystemThreadingTasksParallel\_DouglasDwyer\_CasCore\_CasPolicyBuilder\_)

# Class CasPolicyBuilderExtensions

Provides a set of methods for whitelisting C# standard library members.

Filter by title

## Inheritance

**DouglasDwyer.CasCore**  
↳ object (https://learn.microsoft.com/dotnet/api/system.object)  
(DouglasDwyer.CasCore.html)

## Inherited Members

(DouglasDwyer.CasCore.Accessibili  
object.Equals(object) ([https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals\(system-object\)](https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object)))  
AssemblyBinding  
(DouglasDwyer.CasCore.AssemblyB  
object.Equals(object, object) ([https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals\(system-object-system-object\)](https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object)))  
CasAssemblyLoader  
(DouglasDwyer.CasCore.CasAssem  
object.GetHashCode() (<https://learn.microsoft.com/dotnet/api/system.object.gethashcode>)  
CasPolicy  
object.GetType() (<https://learn.microsoft.com/dotnet/api/system.object.gettype>)  
(DouglasDwyer.CasCore.CasPolicy.I  
object.MemberwiseClone() (<https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone>)  
CasPolicyBuilder  
object.ReferenceEquals(object, object) (<https://learn.microsoft.com/dotnet/api/system.object.referenceequals>)  
(DouglasDwyer.CasCore.CasPolicy.B  
object.ToString() (<https://learn.microsoft.com/dotnet/api/system.object.tostring>)  
CasPolicyBuilderExtensions

Name(Space|\_)+DouglasDwyer(CasCore.DouglasDwyer.html).CasCore (DouglasDwyer.CasCore.html)

## ExceptionViolationHandler

```
Syntax (DouglasDwyer.CasCore.ExceptionV
    ICasViolationHandler
```

```
(DouglasDwyer.CasCore.ICasViolati
public static class CasPolicyBuilderExtensions
TypeBinding
(DouglasDwyer.CasCore.TypeBindir
```

## Methods

## WithDefaultSandbox(CasPolicyBuilder)

Adds a safe subset of the C# standard library to the policy. The aim of this method is to provide a sensible default whitelist that ensures any loaded assemblies cannot gain access to the host system. Specifically, the following APIs are excluded from this whitelist:

- Cause undefined behavior
- Access the filesystem
- Access the network
- Access other OS-specific resources (such as processes or pipes)
- Allow for loading other code without verification (such as `System.Reflection.Emit`)

## Declaration

```
public static CasPolicyBuilder WithDefaultSandbox(this CasPolicyBuilder builder)
```

Parameters

Type	Name	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	<i>builder</i>	The builder to which members should be added.

Returns

Type	Description
<b>DouglasDwyer.CasCore.CasPolicyBuilder</b> (DouglasDwyer.CasCore.CasPolicyBuilder.html)	The modified builder.

Accessibility  
(DouglasDwyer.CasCore.Accessibility)

WithSandboxedRuntimeReflection(CasPolicyBuilder)

Adds all safe members from the runtime reflection system, such as `System.RuntimeType`.

Declaration  

```
public static CasPolicyBuilder WithSandboxedRuntimeReflection(this CasPolicyBuilder builder)
```

Parameters

Type	Name	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	<i>builder</i>	The builder to which members should be added.

Returns

Type	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	The modified builder.

WithSandboxedSystem(CasPolicyBuilder)

Adds all safe members from the `CoreLib` assembly.

Declaration

```
public static CasPolicyBuilder WithSandboxedSystem(this CasPolicyBuilder builder)
```

Parameters

Type	Name	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	<i>builder</i>	The builder to which members should be added.

Returns

Type	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	The modified builder.

## WithSandboxedSystemCollections(CasPolicyBuilder)

Adds all safe members from the `System.Collections` assembly.

### - DouglasDwyer.CasCore

#### Declaration (DouglasDwyer.CasCore.html)

```
public static CasPolicyBuilder WithSandboxedSystemCollections(this CasPolicyBuilder builder)
(DouglasDwyer.CasCore.Accessibility)
```

AssemblyBinding

#### Parameters (DouglasDwyer.CasCore.AssemblyBinding)

Type	Name	Description
CasAssemblyLoader (DouglasDwyer.CasCore.CasAssemblyLoader.html)		
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	<i>builder</i>	The builder to which members should be added.

#### Returns (DouglasDwyer.CasCore.CasPolicyBuilder)

Type	Description
CasPolicyBuilderExtensions (DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html)	
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	The modified builder.

ExceptionViolation (DouglasDwyer.CasCore.ExceptionViolation.html)

ICasViolationHandler  
(DouglasDwyer.CasCore.ICasViolationHandler.html)

## WithSandboxedSystemCollectionsConcurrent(CasPolicyBuilder)

Adds all safe members from the `System.Collections.Concurrent` assembly.

### Declaration

```
public static CasPolicyBuilder WithSandboxedSystemCollectionsConcurrent(this CasPolicyBuilder builder)
(DouglasDwyer.CasCore.TypeBinding)
```

#### Parameters

Type	Name	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	<i>builder</i>	The builder to which members should be added.

#### Returns

Type	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	The modified builder.

## WithSandboxedSystemCollectionsImmutable(CasPolicyBuilder)

Adds all safe members from the `System.Collections.Immutable` assembly.

Declaration

```
public static CasPolicyBuilder WithSandboxedSystemCollectionsImmutable(this CasPolicyBuilder builder)
```

Parameters

Type	Name	Description
<b>DouglasDwyer.CasCore</b> ( <b>DouglasDwyer.CasCore.html</b> )		
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	<i>builder</i>	The builder to which members should be added.

Returns

Type	Description
CasAssemblyLoader (DouglasDwyer.CasCore.CasAssemblyLoader.html)	
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	The modified builder.

**WithSandboxedSystemCollectionsNonGeneric(CasPolicyBuilder)**

Adds all safe members from the `System.Collections.NonGeneric` assembly.

Declaration

```
public static CasPolicyBuilder WithSandboxedSystemCollectionsNonGeneric(this CasPolicyBuilder builder)
```

Parameters

Type	Name	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	<i>builder</i>	The builder to which members should be added.

Returns

Type	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	The modified builder.

**WithSandboxedSystemCollectionsSpecialized(CasPolicyBuilder)**

Adds all safe members from the `System.Collections.Specialized` assembly.

Declaration

```
public static CasPolicyBuilder WithSandboxedSystemCollectionsSpecialized(this CasPolicyBuild
er builder)
```

Parameters			
Type		Name	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)		<i>builder</i>	The builder to which members should be added.

Returns			
Type			Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)			The modified builder.

**WithSandboxedSystemComponentModelTypeConverter(CasPolicyBuilder)**

Adds all safe members from the System.ComponentModel.TypeConverter assembly.

Declaration			
public static CasPolicyBuilder WithSandboxedSystemComponentModelTypeConverter(this CasPolicyBuilder builder)			

Parameters			
Type		Name	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)		<i>builder</i>	The builder to which members should be added.

Returns			
Type			Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)			The modified builder.

**WithSandboxedSystemConsole(CasPolicyBuilder)**

Adds all safe members from the System.Console assembly.

**Declaration**

```
public static CasPolicyBuilder WithSandboxedSystemConsole(this CasPolicyBuilder builder)
```

**Parameters**

Type	Name	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	<i>builder</i>	The builder to which members should be added.

Returns

Type	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	The modified builder.

**(DouglasDwyer.CasCore.html)**

Accessibility

**WithSandboxedSystemDiagnosticsDiagnosticSource(CasPolicyBuilder)**

Adds all safe members from the `System.Diagnostics.DiagnosticSource` assembly.  
(DouglasDwyer.CasCore.AssemblyBuilderExtensions)

Declaration

`public static CasPolicyBuilder WithSandboxedSystemDiagnosticsDiagnosticSource(this CasPolicyBuilder builder)`  
(DouglasDwyer.CasCore.CasPolicyBuilderExtensions)

Parameters

Type	Name	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	<i>builder</i>	The builder to which members should be added.

Returns

Type	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	The modified builder.

**WithSandboxedSystemLinq(CasPolicyBuilder)**

Adds all safe members from the `System.Linq` assembly.

Declaration

`public static CasPolicyBuilder WithSandboxedSystemLinq(this CasPolicyBuilder builder)`

Parameters

Type	Name	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	<i>builder</i>	The builder to which members should be added.

Returns

Type	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	The modified builder.

## WithSandboxedSystemLinqExpressions(CasPolicyBuilder)

Adds all safe members from the `System.Linq.Expressions` assembly.

- **DouglasDwyer.CasCore**

Declaration  
(DouglasDwyer.CasCore.html)

```
public static CasPolicyBuilder WithSandboxedSystemLinqExpressions(this CasPolicyBuilder builder)
(DouglasDwyer.CasCore.Accessibility)
```

```
AssemblyBinding
(DouglasDwyer.CasCore.AssemblyBinding)
```

Parameters

Type	Name	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	<i>builder</i>	The builder to which members should be added.

(DouglasDwyer.CasCore.CasPolicyBuilder.html)

Returns

Type	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	The modified builder.

```
ICasViolationHandler
(DouglasDwyer.CasCore.ICasViolationHandler)
```

```
TypeBinding
(DouglasDwyer.CasCore.TypeBinding)
```

## WithSandboxedSystemLinqParallel(CasPolicyBuilder)

Adds all safe members from the `System.Linq.Parallel` assembly.

Declaration

```
public static CasPolicyBuilder WithSandboxedSystemLinqParallel(this CasPolicyBuilder builder)
(DouglasDwyer.CasCore.CasPolicyBuilder.html)
```

Parameters

Type	Name	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	<i>builder</i>	The builder to which members should be added.

Returns

Type	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	The modified builder.



## WithSandboxedSystemLinqQueryable(CasPolicyBuilder)

Adds all safe members from the `.System.Linq.Queryable` assembly.

## Declaration

```
public static CasPolicyBuilder WithSandboxedSystemLinqQueryable(this CasPolicyBuilder builder)
```

- DouglasDwyer.CasCore

## Parameters (DouglasDwyer.CasCore.html)

Type	Name	Description
Accessibility (DouglasDwyer.CasCore.Accessibility.CasPolicyBuilder.AssemblyBinding (DouglasDwyer.CasCore.CasPolicyBuilder.html) (DouglasDwyer.CasCore.AssemblyBinding.html)	<i>builder</i>	The builder to which members should be added.

## CasAssemblyLoader

### Returns

Type	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	The modified builder.

(DouglasDwyer.CasCore.CasPolicyB  
CasPolicyBuilderExtensions

## With Sandbox System Object Model(CasPolicyBuilder)

## ExceptionViolationHandler

Adds all safe members from the System.ObjectModel assembly.  
(Doubled as Dwyer.CasCore.ExceptionV

## ICasViolationHandler

## Declaration

(DouglasDwyer.CasCore.ICasViolati

```

TypeBinding
public static CasPolicyBuilder.WithSandboxedSystemObjectModel(this CasPolicyBuilder builder)
(DouglasDwyer.CasCore.TypeBindir

```

## Parameters

Type		Name	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)		<i>builder</i>	The builder to which members should be added.

## Returns

Type	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	The modified builder.

## With Sandboxed System Reflection Type Extensions (CasPolicyBuilder)

Adds all safe members from the `System.Reflection.TypeExtensions` assembly.

## Declaration

```
public static CasPolicyBuilder WithSandboxedSystemReflectionTypeExtensions(this CasPolicyBuilder builder)
```

Parameters

Type	Name	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	<i>builder</i>	The builder to which members should be added.

Returns

Type	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	The modified builder.

WithSandboxedSystemRuntimeNumerics(CasPolicyBuilder)

Adds all safe members from the System.Runtime.Numerics assembly.

Declaration

```
public static CasPolicyBuilder WithSandboxedSystemRuntimeNumerics(this CasPolicyBuilder builder)
```

Parameters

Type	Name	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	<i>builder</i>	The builder to which members should be added.

Returns

Type	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	The modified builder.

WithSandboxedSystemRuntimeSerializationFormatters(CasPolicyBuilder)

Adds all safe members from the System.Runtime.SerializationFormatters assembly.

Declaration

```
public static CasPolicyBuilder WithSandboxedSystemRuntimeSerializationFormatters(this CasPolicyBuilder builder)
```

Parameters

Type	Name	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	<i>builder</i>	The builder to which members should be added.

Returns

Type	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	The modified builder.

**WithSandboxedSystemTextJson(CasPolicyBuilder)**

Accessibility  
Adds all safe members from the System.Text.Json assembly.  
(DouglasDwyer.CasCore.AssemblyBinding)

Declaration

CasAssemblyLoader  
(DouglasDwyer.CasCore.CasAssemblyLoader)  
CasPolicy  
public static CasPolicyBuilder WithSandboxedSystemTextJson(this CasPolicyBuilder builder)  
(DouglasDwyer.CasCore.CasPolicyBuilder)  
CasPolicyBuilder  
(DouglasDwyer.CasCore.CasPolicyBuilder)

Parameters

Type	Name	Description
CasPolicyBuilderExtensions (DouglasDwyer.CasCore.CasPolicyBuilderExtensions)		
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	<i>builder</i>	The builder to which members should be added.

Returns

Type	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	The modified builder.

**WithSandboxedSystemTextRegularExpressions(CasPolicyBuilder)**

Adds all safe members from the System.Text.RegularExpressions assembly.

Declaration

public static CasPolicyBuilder WithSandboxedSystemTextRegularExpressions(this CasPolicyBuilder builder)

Parameters

Type	Name	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	<i>builder</i>	The builder to which members should be added.

Returns

Type	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	The modified builder.

## WithSandboxedSystemThreading(CasPolicyBuilder)

Adds all safe members from the `System.Threading` assembly.

### - DouglasDwyer.CasCore

Declaration

#### (DouglasDwyer.CasCore.html)

```
public static CasPolicyBuilder WithSandboxedSystemThreading(this CasPolicyBuilder builder)
(DouglasDwyer.CasCore.Accessibility)
```

AssemblyBinding

#### Parameters

(DouglasDwyer.CasCore.AssemblyBinding)

Type	Name	Description
CasAssemblyLoader (DouglasDwyer.CasCore.CasAssemblyLoader.html)		
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	<i>builder</i>	The builder to which members should be added.

#### Returns

(DouglasDwyer.CasCore.CasPolicyBuilder)

Type	Description
CasPolicyBuilderExtensions (DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html)	
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	The modified builder.

ExceptionViolation (DouglasDwyer.CasCore.ExceptionViolation.html)

(DouglasDwyer.CasCore.ExceptionViolation)

ICasViolationHandler

(DouglasDwyer.CasCore.ICasViolationHandler)

## WithSandboxedSystemThreadingChannels(CasPolicyBuilder)

TypeBinding

(DouglasDwyer.CasCore.TypeBinding)

Adds all safe members from the `System.Threading.Channels` assembly.

#### Declaration

```
public static CasPolicyBuilder WithSandboxedSystemThreadingChannels(this CasPolicyBuilder builder)
(DouglasDwyer.CasCore.CasPolicyBuilder.html)
```

#### Parameters

Type	Name	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	<i>builder</i>	The builder to which members should be added.

#### Returns


Type	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	The modified builder.

## WithSandboxedSystemThreadingTasksDataflow(CasPolicyBuilder)

Adds all safe members from the `System.Threading.Tasks.Dataflow` assembly.

Declaration

```
public static CasPolicyBuilder WithSandboxedSystemThreadingTasksDataflow(this CasPolicyBuild
er builder)
```



Parameters

Type	Name	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	<i>builder</i>	The builder to which members should be added.

```
AssemblyBinding
```

Returns

Type	Description
CasAssemblyLoader (DouglasDwyer.CasCore.CasAssembl CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	The modified builder.

```
CasPolicyBuilder  
(DouglasDwyer.CasCore.CasPolicy.h  
CasPolicyBuilder  
(DouglasDwyer.CasCore.CasPolicyB  
CasPolicyBuilderExtensions
```

### WithSandboxedSystemThreadingTasksParallel(CasPolicyBuilder)

Adds all members from the `System.Threading.Tasks.Parallel` assembly.

```
ExceptionViolationHandler  
(DouglasDwyer.CasCore.ExceptionV  
ICasViolationHandler  
(DouglasDwyer.CasCore.ICasViolat  
public static CasPolicyBuilder WithSandboxedSystemThreadingTasksParallel(this CasPolicyBuild  
er builder)  
TypeBinding  
(DouglasDwyer.CasCore.TypeBindir
```

Parameters

Type	Name	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	<i>builder</i>	The builder to which members should be added.

Returns

Type	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	The modified builder.

# Class ExceptionViolationHandler

Raises a security exception whenever a CAS violation occurs.

▼ Filter by title

## Inheritance

↳ **DouglasDwyer.CasCore** (https://learn.microsoft.com/dotnet/api/system.object)  
(**DouglasDwyer.CasCore.html**)

## Implements

Accessibility  
(DouglasDwyer.CasCore.Accessibility.html)  
ICasViolationHandler (DouglasDwyer.CasCore.ICasViolationHandler.html)

## Inherited Members

(DouglasDwyer.CasCore.AssemblyBinding.html)  
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object)) (DouglasDwyer.CasCore.CasAssemblyLoader.html)  
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object,system-object)) (DouglasDwyer.CasCore.CasPolicy.html)  
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode) (DouglasDwyer.CasCore.CasPolicyBuilder.html)  
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype) (DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html)  
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals) (DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html)  
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring) (DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html)  
**Namespace:** DouglasDwyer (DouglasDwyer.html).CasCore (DouglasDwyer.CasCore.html)  
(DouglasDwyer.CasCore.ExceptionViolationHandler.html)  
**Assembly:** CasCore.dll  
**Syntax**  
TypeBinding  
public DouglasDwyer.CasCore.ExceptionViolationHandler : ICasViolationHandler

## Methods

### OnViolation(Assembly, MemberInfo)

Called when a sandboxed assembly accesses a field or method that is not on the CasPolicy (DouglasDwyer.CasCore.CasPolicy.html) whitelist. If this method does not throw an exception, then control flow will return to the sandboxed assembly and the invalid access will complete successfully.

#### Declaration

```
public void OnViolation(Assembly caller, MemberInfo member)
```

#### Parameters

Type	Name	Description
Assembly ( <a href="https://learn.microsoft.com/dotnet/api/system.reflection.assembly">https://learn.microsoft.com/dotnet/api/system.reflection.assembly</a> )	<i>caller</i>	The offending assembly.
MemberInfo ( <a href="https://learn.microsoft.com/dotnet/api/system.reflection.memberinfo">https://learn.microsoft.com/dotnet/api/system.reflection.memberinfo</a> )	<i>member</i>	The member that it attempted to read, write, or call.

**- DouglasDwyer.CasCore**  
**(DouglasDwyer.CasCore.html)**

**Implements**

Accessibility  
(DouglasDwyer.CasCore.Accessibility)  
ICasViolationHandler (DouglasDwyer.CasCore.ICasViolationHandler.html)  
AssemblyBinding  
(DouglasDwyer.CasCore.AssemblyBinding)  
CasAssemblyLoader  
(DouglasDwyer.CasCore.CasAssemblyLoader)  
CasPolicy  
(DouglasDwyer.CasCore.CasPolicy)  
CasPolicyBuilder  
(DouglasDwyer.CasCore.CasPolicyBuilder)  
CasPolicyBuilderExtensions  
(DouglasDwyer.CasCore.CasPolicyBuilderExtensions)  
ExceptionViolationHandler  
(DouglasDwyer.CasCore.ExceptionViolationHandler)  
ICasViolationHandler  
(DouglasDwyer.CasCore.ICasViolationHandler)  
TypeBinding  
(DouglasDwyer.CasCore.TypeBinding)

# Interface ICasViolationHandler

Event handler that is invoked when an assembly attempts to access a field or method without permission.

▼ Filter by title

**Namespace:** DouglasDwyer (DouglasDwyer.html).CasCore (DouglasDwyer.CasCore.html)

**Assembly:** DouglasDwyer.CasCore

**System:** (DouglasDwyer.CasCore.html)

Accessibility  
(DouglasDwyer.CasCore.Accessibility)  
AssemblyBinding  
(DouglasDwyer.CasCore.AssemblyBinding)  
CasAssemblyLoader  
(DouglasDwyer.CasCore.CasAssemblyLoader)  
CasPolicy  
(DouglasDwyer.CasCore.CasPolicy)  
CasPolicyBuilder  
(DouglasDwyer.CasCore.CasPolicyBuilder)  
CasPolicyBuilderExtensions  
(DouglasDwyer.CasCore.CasPolicyBuilderExtensions)  
ExceptionViolationHandler  
(DouglasDwyer.CasCore.ExceptionViolationHandler)

## Methods

### OnViolation(Assembly caller, MemberInfo member)

Called when a sandboxed assembly accesses a field or method that is not on the CasPolicy (DouglasDwyer.CasCore.CasPolicy.html) whitelist. If this method does not throw an exception, then control flow will return to the sandboxed assembly and the invalid access will complete successfully.

**Declaration**  
ICasViolationHandler  
(DouglasDwyer.CasCore.ICasViolationHandler)  
Type Binding  
(DouglasDwyer.CasCore.TypeBinding)

### Parameters

Type	Name	Description
Assembly ( <a href="https://learn.microsoft.com/dotnet/api/system.reflection.assembly">https://learn.microsoft.com/dotnet/api/system.reflection.assembly</a> )	<i>caller</i>	The offending assembly.
MemberInfo ( <a href="https://learn.microsoft.com/dotnet/api/system.reflection.memberinfo">https://learn.microsoft.com/dotnet/api/system.reflection.memberinfo</a> )	<i>member</i>	The member that it attempted to read, write, or call.



# Class TypeBinding

Facilitates selecting particular members of a type to include in a CasPolicy (DouglasDwyer.CasCore.CasPolicy.html).

▼ Filter by title

## Inheritance

↳ **DouglasDwyer.CasCore.TypeBinding** (DouglasDwyer.CasCore.html)  
↳ **object** (https://learn.microsoft.com/dotnet/api/system.object)

## Implements

Accessibility (DouglasDwyer.CasCore.Accessibility)  
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1) <MemberInfo  
(https://learn.microsoft.com/dotnet/api/system.reflection.memberinfo) >  
AssemblyBinding (DouglasDwyer.CasCore.AssemblyBinding)  
IEnumerable (https://learn.microsoft.com/dotnet/api/system.collections.ienumerable)  
CasAssemblyLoader

## Inherited Members

CasPolicy (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object)) (DouglasDwyer.CasCore.CasPolicy.html)  
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object, object)) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object, object))  
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)  
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)  
ExceptionViolationHandler (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)  
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)  
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)  
ICasViolationHandler  
**Namespace:** DouglasDwyer (DouglasDwyer.html).CasCore (DouglasDwyer.CasCore.html)  
(DouglasDwyer.CasCore.ICasViolationHandler)  
**Assembly:** CasCore.dll  
TypeBinding

## Syntax

```
public sealed class TypeBinding : IEnumerable<MemberInfo>, IEnumerable
```

## Constructors

### TypeBinding(Type, Accessibility)

Creates a new binding for members of the given type. This recursively includes members of nested classes that are visible under the given accessibility.

#### Declaration

```
public TypeBinding(Type type, Accessibility accessibility)
```

#### Parameters

Type	Name	Description
Type (https://learn.microsoft.com/dotnet/api/system.type)	type	The target type.

Type	Name	Description
Accessibility (DouglasDwyer.CasCore.Accessibility.html)	<i>accessibility</i>	The accessibility level of members.

# Methods

## - DouglasDwyer.CasCore

### GetEnumerator(CasCore.html)

Returns an enumerator that iterates through the collection.  
(DouglasDwyer.CasCore.Accessibility.html)

Declaration  
AssemblyBinding  
(DouglasDwyer.CasCore.AssemblyBinding.html)  
public AssemblyLoader<MemberInfo> GetEnumerator()  
(DouglasDwyer.CasCore.CasAssemblyLoader.html)  
CasPolicy  
(DouglasDwyer.CasCore.CasPolicy.html)

Returns  
(DouglasDwyer.CasCore.CasPolicyBuilder.html)

Type	Description
CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html)	An enumerator that can be used to iterate through the collection.
IEnumerator CasPolicyBuilderExtensions ( <a href="https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerator-1">https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerator-1</a> )	
ExceptionViolationHandler < MemberInfo (DouglasDwyer.CasCore.ExceptionViolationHandler.html)	
MemberInfo ICasViolationHandler ( <a href="https://learn.microsoft.com/dotnet/api/system.reflection.memberinfo">https://learn.microsoft.com/dotnet/api/system.reflection.memberinfo</a> )	
> TypeBinding (DouglasDwyer.CasCore.TypeBinding.html)	

## WithConstructor(Accessibility)

Adds the constructor of the given accessibility to this binding.

### Declaration

```
public TypeBinding WithConstructor(Accessibility accessibility)
```

### Parameters

Type	Name	Description
Accessibility (DouglasDwyer.CasCore.Accessibility.html)	<i>accessibility</i>	The target member's accessibility.

### Returns

Type	Description
TypeBinding (DouglasDwyer.CasCore.TypeBinding.html)	This type binding, with the member added.

### Exceptions

Type	Condition
ArgumentException ( <a href="https://learn.microsoft.com/dotnet/api/system.argumentexception">https://learn.microsoft.com/dotnet/api/system.argumentexception</a> )	If no member could be found.

## WithConstructor(Type[], Accessibility)

Adds the member with the given parameters and accessibility to this binding.

([DouglasDwyer.CasCore.html](#))

Declaration

Accessibility

([DouglasDwyer.CasCore.Accessibility.html](#))

public TypeBinding WithConstructor(Type[] parameters, Accessibility accessibility)

AssemblyBinding

([DouglasDwyer.CasCore.AssemblyBinding.html](#))

Parameters

Type	Name	Description
( <a href="#">DouglasDwyer.CasCore.CasAssemblyBinding.html</a> ) CasPolicy		
Type[] ( <a href="#">DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html</a> ) ( <a href="https://learn.microsoft.com/dotnet/api/system.type">https://learn.microsoft.com/dotnet/api/system.type</a> ) CasPolicyBuilderExtensions ( <a href="#">DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html</a> )	<i>parameters</i>	The parameters that the constructor accepts.
Accessibility ( <a href="#">DouglasDwyer.CasCore.Accessibility.html</a> ) ( <a href="#">DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html</a> )	<i>accessibility</i>	The target member's accessibility.

ExceptionViolationHandler

Returns

([DouglasDwyer.CasCore.ExceptionViolationHandler.html](#))

Type

([DouglasDwyer.CasCore.ICasViolationHandler.html](#))

TypeBinding ([DouglasDwyer.CasCore.TypeBinding.html](#))

TypeBinding

([DouglasDwyer.CasCore.TypeBinding.html](#))

Exceptions

Type	Condition
ArgumentException ( <a href="https://learn.microsoft.com/dotnet/api/system.argumentexception">https://learn.microsoft.com/dotnet/api/system.argumentexception</a> )	If no member could be found.

## WithField(string, Accessibility)

Adds the field with the given name and accessibility to this binding.

Declaration

public TypeBinding WithField(string name, Accessibility accessibility)

Parameters

Type	Name	Description
string ( <a href="https://learn.microsoft.com/dotnet/api/system.string">https://learn.microsoft.com/dotnet/api/system.string</a> )	<i>name</i>	The name of the member to add.

Type	Name	Description
Accessibility (DouglasDwyer.CasCore.Accessibility.html)	<i>accessibility</i>	The target member's accessibility.

#### Returns

Type	Description
TypeBinding (DouglasDwyer.CasCore.TypeBinding.html)	This type binding, with the member added.

### - DouglasDwyer.CasCore

#### Example (DouglasDwyer.CasCore.html)

Type	Condition
Accessibility (DouglasDwyer.CasCore.Accessibility.html)	If no member could be found.
ArgumentException (https://learn.microsoft.com/dotnet/api/system.argumentexception)	

CasAssemblyLoader  
(DouglasDwyer.CasCore.CasAssemblyLoader.html)

CasPolicy  
(DouglasDwyer.CasCore.CasPolicy.html)

### WithMethod(string, Accessibility)

(DouglasDwyer.CasCore.CasPolicyBuilder.html)

Adds CasPolicyBuilder with the given name and accessibility to this binding.

(DouglasDwyer.CasCore.CasPolicyBuilder.html)

#### Declaration

```
public TypeBinding WithMethod(string name, Accessibility accessibility)
    ExceptionViolationHandler
```

(DouglasDwyer.CasCore.ExceptionViolationHandler.html)

ICasViolationHandler  
(DouglasDwyer.CasCore.ICasViolationHandler.html)

#### Parameters

Type	Name	Description
TypeBinding (DouglasDwyer.CasCore.TypeBinding.html)		
string (https://learn.microsoft.com/dotnet/api/system.string)	<i>name</i>	The name of the member to add.
Accessibility (DouglasDwyer.CasCore.Accessibility.html)	<i>accessibility</i>	The target member's accessibility.

#### Returns

Type	Description
TypeBinding (DouglasDwyer.CasCore.TypeBinding.html)	This type binding, with the member added.

#### Exceptions

Type	Condition
ArgumentException (https://learn.microsoft.com/dotnet/api/system.argumentexception)	If no member could be found.

### WithMethod(string, Type[], Accessibility)

Adds the method with the given name and accessibility to this binding.

#### Declaration

public TypeBinding WithMethod(string name, Type[] parameters, Accessibility accessibility)

Parameters

Type	Name	Description
string ( <a href="https://learn.microsoft.com/dotnet/api/system.string">https://learn.microsoft.com/dotnet/api/system.string</a> )	<i>name</i>	The name of the member to add.
<b>DouglasDwyer.CasCore</b> <b>(<a href="https://learn.microsoft.com/dotnet/api/system.type">https://learn.microsoft.com/dotnet/api/system.type</a>)</b> Accessibility ( <a href="#">DouglasDwyer.CasCore.Accessibility.html</a> )	<i>parameters</i>	The parameters that the method accepts.
AssemblyBinding ( <a href="#">DouglasDwyer.CasCore.AssemblyBinding.html</a> )	<i>accessibility</i>	The target member's accessibility.

Returns

Type	Description
CasPolicy ( <a href="#">DouglasDwyer.CasCore.CasPolicy.html</a> )	This type binding, with the member added.

Exceptions

Type	Condition
ExceptionViolationHandler ArgumentException ( <a href="#">DouglasDwyer.CasCore.ExceptionViolationHandler.html</a> ) ( <a href="https://learn.microsoft.com/dotnet/api/system.argumentexception">https://learn.microsoft.com/dotnet/api/system.argumentexception</a> )	If no member could be found.

Implements

IEnumerable<T> (<https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerable-1>)  
IEnumerable (<https://learn.microsoft.com/dotnet/api/system.collections.ienumerable>)