

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.

CasPolicy

(DouglasDwyer.CasCore.CasPolicy.h

CasPolicy (DouglasDwyer.CasCore.CasPolicy.html)

CasPolicyBuilder

(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)

TypeBinding

(DouglasDwyer.CasCore.TypeBindir

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

CasPolicyBuilderExtensions

(DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html)

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

TypeBinding (DouglasDwyer.CasCore.TypeBinding.html)

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

(DouglasDwyer.CasCore.CasPolicy.html).

Enums

Accessibility (DouglasDwyer.CasCore.Accessibility.html)

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

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

System: (DouglasDwyer.CasCore.html)

Accessibility

public enum Accessibility

AssemblyBinding

(DouglasDwyer.CasCore.AssemblyB

CasAssemblyLoader

(DouglasDwyer.CasCore.CasAssembl

CasPolicy

(DouglasDwyer.CasCore.CasPolicy.h

Fields

| Name | Description |
|----------------------------|--|
| CasPolicyBuilder | |
| NonPublic | (DouglasDwyer.CasCore.CasPolicyB |
| CasPolicyBuilderExtensions | Identifies all members. |
| Private | (DouglasDwyer.CasCore.CasPolicyB |
| TypeBinding | Identifies all public or family members. |
| Protected | (DouglasDwyer.CasCore.TypeBindir |
| Public | Identifies all public members. |

Class AssemblyBinding

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

▼ Filter by title

Inheritance

↳ **DouglasDwyer.CasCore.AssemblyBinding** (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) >
AssemblyBinding (https://learn.microsoft.com/dotnet/api/system.reflection.memberinfo) >
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)
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 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 (https://learn.microsoft.com/dotnet/api/system.reflection.assembly) | <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)
CasPolicyBuilderExtensions
(DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html)

GetTypeBinding
(DouglasDwyer.CasCore.TypeBinding.html)

| Type | Description |
|--|---|
| IEnumerator (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerator-1) < MemberInfo (https://learn.microsoft.com/dotnet/api/system.reflection.memberinfo)> | 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

↳ 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.f

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>)

TypeBinding

VerifiableAssemblyLoader.Unload()

(DouglasDwyer.CasCore.TypeBindir

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

VerifiableAssemblyLoader.LoadUnmanagedDllFromPath(string)

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

VerifiableAssemblyLoader.IsCollectible

VerifiableAssemblyLoader.Name

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) | <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

Declaration
(DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html)
`public CasAssemblyLoader(CasPolicy policy, 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. |
| bool (https://learn.microsoft.com/dotnet/api/system.boolean) | <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 (https://learn.microsoft.com/dotnet/api/system.string) | <i>name</i> | The display name of the load context. |
| bool (https://learn.microsoft.com/dotnet/api/system.boolean) | <i>isCollectible</i> | Whether this context should be able to unload. |

DouglasDwyer.CasCore
(<https://learn.microsoft.com/dotnet/api/system.boolean>)

Accessibility
(DouglasDwyer.CasCore.Accessibility)

AssemblyBinding
(DouglasDwyer.CasCore.AssemblyBinding)

AssemblyLoader
(DouglasDwyer.CasCore.AssemblyLoader)

CasAssembly
(DouglasDwyer.CasCore.CasAssembly)

CasPolicy
(DouglasDwyer.CasCore.CasPolicy)

CasPolicyBuilder
(DouglasDwyer.CasCore.CasPolicyBuilder)

CasPolicyBuilderExtensions
(DouglasDwyer.CasCore.CasPolicyBuilderExtensions)

Declaration
(DouglasDwyer.CasCore.CasPolicyBuilderExtensions)

TypeBinding
(DouglasDwyer.CasCore.TypeBinding)

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 |
|---|-----------------|-----------------------------|
| AssemblyDefinition (https://github.com/jbevain/cecil/blob/5de7d8cbc91f6fd98dcc24b26b8c398db497809c/Mono.Cecil/AssemblyDefinition.cs) | <i>assembly</i> | The assembly to instrument. |

Overrides

VerifiableAssemblyLoader.InstrumentAssembly(AssemblyDefinition)
(<https://github.com/jbevain/cecil/blob/5de7d8cbc91f6fd98dcc24b26b8c398db497809c/Mono.Cecil/AssemblyDefinition.cs>)

Load(AssemblyName)

When overridden in a derived class, allows an assembly to be resolved based on its AssemblyName
(<https://learn.microsoft.com/dotnet/api/system.reflection.assemblyname>).

Declaration

```
protected override Assembly? Load(AssemblyName assemblyName)
```

Parameters

| Type | Name | Description |
|---|---------------------|--|
| AssemblyName (https://learn.microsoft.com/dotnet/api/system.reflection.assemblyname) | <i>assemblyName</i> | The object that describes the assembly to be resolved. |

Returns

| Type | Description |
|--|----------------------------------|
| DouglasDwyer.CasCore Assembly (https://learn.microsoft.com/dotnet/api/system.reflection.assembly) (DouglasDwyer.CasCore.html) | The resolved assembly, or null . |

Overrides

VerifiableAssemblyLoader.Load(AssemblyName)
(<https://learn.microsoft.com/dotnet/api/system.reflection.assemblyname>)
([DouglasDwyer.CasCore.Assembly](#))

LoadFromStream(Stream, Stream?)

Loads the assembly with a common object file format (COFF)-based image containing a managed assembly, optionally including symbols for the assembly.
([DouglasDwyer.CasCore.CasPolicyBuilder](#))

Declaration

public static Assembly LoadFromStream(Stream assembly, Stream? assemblySymbols)
([DouglasDwyer.CasCore.TypeBinding](#))

Parameters

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

Returns

| Type | Description |
|--|----------------------|
| Assembly (https://learn.microsoft.com/dotnet/api/system.reflection.assembly) | The loaded assembly. |

Overrides

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



- **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

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** (https://learn.microsoft.com/dotnet/api/system.object)
(**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
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

TypeBinding

Syntax
(DouglasDwyer.CasCore.TypeBinding)

```
public sealed class CasPolicy
```

Class CasPolicyBuilder

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

▼ Filter by title

Inheritance

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

```
public sealed class CasPolicyBuilder
```

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

TypeBinding

Allows the given member to be accessed by sandboxed assemblies.

(DouglasDwyer.CasCore.TypeBindir

Declaration

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

Parameters

| Type | | Name | Description |
|---|--|---------------|----------------------|
| MemberInfo (https://learn.microsoft.com/dotnet/api/system.reflection.memberinfo) | | <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

(DouglasDwyer.CasCore.AssemblyBinding)

Declaration

CasAssemblyLoader

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

CasPolicy

(DouglasDwyer.CasCore.CasPolicy.html)

Parameters

| 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) | | |
| < TypeBinding (DouglasDwyer.CasCore.TypeBinding) MemberInfo (https://learn.microsoft.com/dotnet/api/system.reflection.memberinfo) > | | |

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_)

Accessibility
(DouglasDwyer.CasCore.Accessibility)
(DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer_CasCore_CasPolicyBuilderExtensions_Wit
hSandboxedRuntimeReflection_DouglasDwyer_CasCore_CasPolicyBuilder_)

AssemblyBinding
(DouglasDwyer.CasCore.AssemblyBinding)
(DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html#DouglasDwyer_CasCore_CasPolicyBuilderExtensions_Wit
hSandboxedRuntimeReflection_DouglasDwyer_CasCore_CasPolicyBuilder_)

CasAssemblyLoader
(DouglasDwyer.CasCore.CasAssemblyLoader)
(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

↳ [object \(https://learn.microsoft.com/dotnet/api/system.object\)](https://learn.microsoft.com/dotnet/api/system.object)
([DouglasDwyer.CasCore.html](#))

Inherited Members

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

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

Assembly: [CasCore.dll](#)

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

```
public static class CasPolicyBuilderExtensions
```

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 |
|--|-----------------------|
| DouglasDwyer.CasCore.CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html) | The modified builder. |

WithSandboxedRuntimeReflection(CasPolicyBuilder)

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

Declaration

```
public static CasPolicyBuilder WithSandboxedRuntimeReflection(this CasPolicyBuilder builder)
{
    // ...
}

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. |

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)

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

Parameters

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

Returns

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

WithSandboxedSystemCollectionsConcurrent(CasPolicyBuilder)

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

Declaration

```
public static CasPolicyBuilder WithSandboxedSystemCollectionsConcurrent(this CasPolicyBuilde  
r 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. |

WithSandboxedSystemCollectionsImmutable(CasPolicyBuilder)

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

Declaration

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

Parameters

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

Returns

| Type | Description |
|--|-----------------------|
| CasAssemblyLoader (DouglasDwyer.CasCore.CasAssemblyLoader.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 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. |

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.AssemblyBinding)

CasAssemblyLoader
(DouglasDwyer.CasCore.CasAssemblyLoader.html)

CasPolicy
public static CasPolicyBuilder WithSandboxedSystemDiagnosticsDiagnosticSource(this CasPolicyBuilder builder)
(DouglasDwyer.CasCore.CasPolicyBuilder.html)

CasPolicyBuilderExtensions

| Type | Name | Description |
|--|----------------|---|
| CasPolicyBuilder (DouglasDwyer.CasCore.TypeBinding.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
```

Parameters

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

(DouglasDwyer.CasCore.CasPolicyBuilderExtensions)

Returns

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

WithSandboxedSystemLinqParallel(CasPolicyBuilder)

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

Declaration

```
public static CasPolicyBuilder WithSandboxedSystemLinqParallel(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. |

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) | <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.CasPolicyBuilderExtensions

With Sandbox System Object Model(CasPolicyBuilder)

TypeBinding

Adds all safe members from the System.ObjectModel assembly.
(Doubled as DouglasDwyer.CasCore.TypedBinding)

Declaration

```
public static CasPolicyBuilder WithSandboxedSystemObjectModel(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. |

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. |

WithSandboxedSystemThreadingChannels(CasPolicyBuilder)

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

Declaration

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

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 |
|---|----------------|---|
| DouglasDwyer.CasCore (DouglasDwyer.CasCore.html) CasPolicyBuilder (DouglasDwyer.CasCore.CasPolicyBuilder.html) | <i>builder</i> | The builder to which members should be added. |

AssemblyBinding
Returns DouglasDwyer.CasCore.AssemblyB

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

WithSandboxedSystemThreadingTasksParallel(CasPolicyBuilder)
CasPolicyBuilderExtensions
(DouglasDwyer.CasCore.CasPolicyB

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

TypeBinding
Declaration
(DouglasDwyer.CasCore.TypeBindir

```
public static CasPolicyBuilder WithSandboxedSystemThreadingTasksParallel(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. |

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)
(<https://learn.microsoft.com/dotnet/api/system.object>)

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) >
AssemblyBinding (DouglasDwyer.CasCore.AssemblyBinding.html)
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)
CasPolicyBuilder (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object)) (DouglasDwyer.CasCore.CasPolicyBuilder.html)
CasPolicyBuilderExtensions (https://learn.microsoft.com/dotnet/api/system.object.gethashcode) (DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html)
GetType (https://learn.microsoft.com/dotnet/api/system.object.gettype) (https://learn.microsoft.com/dotnet/api/system.object.gettype)
TypeBinding (https://learn.microsoft.com/dotnet/api/system.object.referenceequals) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
ToString (https://learn.microsoft.com/dotnet/api/system.object.tostring) (https://learn.microsoft.com/dotnet/api/system.object.tostring)

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

Assembly: CasCore.dll

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) | <i>type</i> | 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) IEnumerator CasPolicyBuilderExtensions (https://learn.microsoft.com/dotnet/api/system.collections.generic.ienumerator-1) TypeBinding < (DouglasDwyer.CasCore.TypeBinding.html) MemberInfo (https://learn.microsoft.com/dotnet/api/system.reflection.memberinfo) > | An enumerator that can be used to iterate through the collection. |

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

▼ WithConstructor(Type[], Accessibility)

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

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

Declaration

```
public TypeBinding WithConstructor(Type[] parameters, Accessibility accessibility)
    AssemblyBinding
    (DouglasDwyer.CasCore.AssemblyB
    CasAssemblyLoader
    (DouglasDwyer.CasCore.CasAssembl
    CasPolicy
    TypeBinding
    (https://learn.microsoft.com/dotnet/api/system.type)
    [] (DouglasDwyer.CasCore.CasPolicyB
    CasPolicyBuilderExtensions
    Accessibility (DouglasDwyer.CasCore.Accessibility.html)
    (DouglasDwyer.CasCore.CasPolicyB
    TypeBinding
    Returns
    (DouglasDwyer.CasCore.TypeBindir
```

| Type | Name | Description |
|---|----------------------|--|
| Type[] (DouglasDwyer.CasCore.CasAssembl CasPolicy Type (DouglasDwyer.CasCore.CasPolicy.h (https://learn.microsoft.com/dotnet/api/system.type) [] (DouglasDwyer.CasCore.CasPolicyB CasPolicyBuilderExtensions Accessibility (DouglasDwyer.CasCore.Accessibility.html) (DouglasDwyer.CasCore.CasPolicyB | <i>parameters</i> | The parameters that the constructor accepts. |
| TypeBinding (DouglasDwyer.CasCore.TypeBindir | <i>accessibility</i> | The target member's accessibility. |

| 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. |

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 (https://learn.microsoft.com/dotnet/api/system.string) | <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)

WithMethod(string, Accessibility)

(DouglasDwyer.CasCore.CasPolicyBuilder.html)

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

(DouglasDwyer.CasCore.CasPolicyBuilder.html)

Declaration

CasPolicyBuilderExtensions

(DouglasDwyer.CasCore.CasPolicyBuilderExtensions.html)

public TypeBinding WithMethod(string name, Accessibility accessibility)

TypeBinding (DouglasDwyer.CasCore.TypeBinding.html)

Parameters

| Type | Name | Description |
|---|----------------------|------------------------------------|
| 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 (https://learn.microsoft.com/dotnet/api/system.string) | name | The name of the member to add. |
| System.Type (https://learn.microsoft.com/dotnet/api/system.type) | parameters | The parameters that the method accepts. |
| Accessibility (DouglasDwyer.CasCore.Accessibility.html) | accessibility | 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. |

Implements

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