SIGENCE Scenario Tool Library

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# SIGENCEScenarioTool.Database.SQLite Namespace

## Classes

|  |  |  |
| --- | --- | --- |
|  | Class | Description |
| Public class | [SQLiteHelper](#_8952F9D0_Topic) |  |
| Public class | [SQLiteMemoryDatabase](#_71D481EC_Topic) |  |

# SQLiteHelper Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Database.SQLite.SQLiteHelper

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#_DC97FA6E_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static class SQLiteHelper |

The **SQLiteHelper** type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [GetDbType](#_56B384F3_Topic) | Gets the type of the database. |
| Public methodStatic member | [GetNativeType](#_7AB090F1_Topic) | Gets the type of the native. |
| Public methodStatic member | [GetSQLiteColumn](#_73DE725F_Topic) | Gets the sq lite column. |
| Public methodStatic member | [GetSQLiteParameter](#_A37D018_Topic) | Gets the sq lite parameter. |

## Fields

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public fieldStatic member | [TypeMapping](#_20014394_Topic) | The type mapping |

## See Also

[SIGENCEScenarioTool.Database.SQLite Namespace](#_DC97FA6E_Topic)

# SQLiteHelper.SQLiteHelper Methods

The [SQLiteHelper](#_8952F9D0_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [GetDbType](#_56B384F3_Topic) | Gets the type of the database. |
| Public methodStatic member | [GetNativeType](#_7AB090F1_Topic) | Gets the type of the native. |
| Public methodStatic member | [GetSQLiteColumn](#_73DE725F_Topic) | Gets the sq lite column. |
| Public methodStatic member | [GetSQLiteParameter](#_A37D018_Topic) | Gets the sq lite parameter. |

## See Also

[SQLiteHelper Class](#_8952F9D0_Topic)

[SIGENCEScenarioTool.Database.SQLite Namespace](#_DC97FA6E_Topic)

# SQLiteHelper.GetDbType Method

Gets the type of the database.

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#_DC97FA6E_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static DbType GetDbType(  string strSqlType ) |

#### Parameters

strSqlType

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Type of the string SQL.

#### Return Value

Type: [DbType](http://msdn2.microsoft.com/en-us/library/fhkx04c4)

## See Also

[SQLiteHelper Class](#_8952F9D0_Topic)

[SIGENCEScenarioTool.Database.SQLite Namespace](#_DC97FA6E_Topic)

# SQLiteHelper.GetNativeType Method

Gets the type of the native.

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#_DC97FA6E_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Type GetNativeType(  string strSqlType ) |

#### Parameters

strSqlType

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Type of the string SQL.

#### Return Value

Type: [Type](http://msdn2.microsoft.com/en-us/library/42892f65)

## See Also

[SQLiteHelper Class](#_8952F9D0_Topic)

[SIGENCEScenarioTool.Database.SQLite Namespace](#_DC97FA6E_Topic)

# SQLiteHelper.GetSQLiteColumn Method

Gets the sq lite column.

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#_DC97FA6E_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string GetSQLiteColumn(  Type t ) |

#### Parameters

t

Type: [System.Type](http://msdn2.microsoft.com/en-us/library/42892f65)

The t.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[SQLiteHelper Class](#_8952F9D0_Topic)

[SIGENCEScenarioTool.Database.SQLite Namespace](#_DC97FA6E_Topic)

# SQLiteHelper.GetSQLiteParameter Method

Gets the sq lite parameter.

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#_DC97FA6E_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static SQLiteParameter GetSQLiteParameter(  PropertyInfo pi ) |

#### Parameters

pi

Type: [System.Reflection.PropertyInfo](http://msdn2.microsoft.com/en-us/library/8z852kf5)

The pi.

#### Return Value

Type: **SQLiteParameter**

## See Also

[SQLiteHelper Class](#_8952F9D0_Topic)

[SIGENCEScenarioTool.Database.SQLite Namespace](#_DC97FA6E_Topic)

# SQLiteHelper.SQLiteHelper Fields

The [SQLiteHelper](#_8952F9D0_Topic) type exposes the following members.

## Fields

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public fieldStatic member | [TypeMapping](#_20014394_Topic) | The type mapping |

## See Also

[SQLiteHelper Class](#_8952F9D0_Topic)

[SIGENCEScenarioTool.Database.SQLite Namespace](#_DC97FA6E_Topic)

# SQLiteHelper.TypeMapping Field

The type mapping

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#_DC97FA6E_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly Dictionary<Type, Tuple<string, DbType, bool>> TypeMapping |

#### Field Value

Type: [Dictionary](http://msdn2.microsoft.com/en-us/library/xfhwa508)([Type](http://msdn2.microsoft.com/en-us/library/42892f65), [Tuple](http://msdn2.microsoft.com/en-us/library/dd387150)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf), [DbType](http://msdn2.microsoft.com/en-us/library/fhkx04c4), [Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)))

## See Also

[SQLiteHelper Class](#_8952F9D0_Topic)

[SIGENCEScenarioTool.Database.SQLite Namespace](#_DC97FA6E_Topic)

# SQLiteMemoryDatabase Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Database.SQLite.SQLiteMemoryDatabase

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#_DC97FA6E_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public sealed class SQLiteMemoryDatabase : IDisposable |

The **SQLiteMemoryDatabase** type exposes the following members.

## Constructors

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [SQLiteMemoryDatabase](#_B51546D9_Topic) | Initializes a new instance of the **SQLiteMemoryDatabase** class. |

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Connection](#_59B55DBF_Topic) | Gets the connection. |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Dispose](#_76515C72_Topic) | Führt anwendungsspezifische Aufgaben durch, die mit der Freigabe, der Zurückgabe oder dem Zurücksetzen von nicht verwalteten Ressourcen zusammenhängen. |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Protected method | [Finalize](#_215277B2_Topic) | Finalizes an instance of the **SQLiteMemoryDatabase** class. (Overrides [Object.Finalize()](http://msdn2.microsoft.com/en-us/library/4k87zsw7).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [Load(FileInfo)](#_C3FFFD6_Topic) | Loads the specified fi. |
| Public method | [Load(String)](#_53F7D312_Topic) | Loads the specified string filename. |
| Public method | [Save(FileInfo, Boolean, Boolean)](#_91888B35_Topic) | Saves the specified fi. |
| Public method | [Save(String, Boolean, Boolean)](#_4C525DB1_Topic) | Saves the specified string filename. |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |

## Operators

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public operatorStatic member | [Implicit(SQLiteMemoryDatabase to SQLiteConnection)](#_88D829C8_Topic) | Performs an implicit conversion from **SQLiteMemoryDatabase** to **SQLiteConnection**. |

## See Also

[SIGENCEScenarioTool.Database.SQLite Namespace](#_DC97FA6E_Topic)

[System.IDisposable](http://msdn2.microsoft.com/en-us/library/aax125c9)

# SQLiteMemoryDatabase Constructor

Initializes a new instance of the [SQLiteMemoryDatabase](#_71D481EC_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#_DC97FA6E_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public SQLiteMemoryDatabase() |

## See Also

[SQLiteMemoryDatabase Class](#_71D481EC_Topic)

[SIGENCEScenarioTool.Database.SQLite Namespace](#_DC97FA6E_Topic)

# SQLiteMemoryDatabase.SQLiteMemoryDatabase Properties

The [SQLiteMemoryDatabase](#_71D481EC_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Connection](#_59B55DBF_Topic) | Gets the connection. |

## See Also

[SQLiteMemoryDatabase Class](#_71D481EC_Topic)

[SIGENCEScenarioTool.Database.SQLite Namespace](#_DC97FA6E_Topic)

# SQLiteMemoryDatabase.Connection Property

Gets the connection.

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#_DC97FA6E_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public SQLiteConnection Connection { get; } |

#### Property Value

Type: **SQLiteConnection**  
The connection.

## See Also

[SQLiteMemoryDatabase Class](#_71D481EC_Topic)

[SIGENCEScenarioTool.Database.SQLite Namespace](#_DC97FA6E_Topic)

# SQLiteMemoryDatabase.SQLiteMemoryDatabase Methods

The [SQLiteMemoryDatabase](#_71D481EC_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Dispose](#_76515C72_Topic) | Führt anwendungsspezifische Aufgaben durch, die mit der Freigabe, der Zurückgabe oder dem Zurücksetzen von nicht verwalteten Ressourcen zusammenhängen. |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Protected method | [Finalize](#_215277B2_Topic) | Finalizes an instance of the [SQLiteMemoryDatabase](#_71D481EC_Topic) class. (Overrides [Object.Finalize()](http://msdn2.microsoft.com/en-us/library/4k87zsw7).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [Load(FileInfo)](#_C3FFFD6_Topic) | Loads the specified fi. |
| Public method | [Load(String)](#_53F7D312_Topic) | Loads the specified string filename. |
| Public method | [Save(FileInfo, Boolean, Boolean)](#_91888B35_Topic) | Saves the specified fi. |
| Public method | [Save(String, Boolean, Boolean)](#_4C525DB1_Topic) | Saves the specified string filename. |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |

## See Also

[SQLiteMemoryDatabase Class](#_71D481EC_Topic)

[SIGENCEScenarioTool.Database.SQLite Namespace](#_DC97FA6E_Topic)

# SQLiteMemoryDatabase.Dispose Method

Führt anwendungsspezifische Aufgaben durch, die mit der Freigabe, der Zurückgabe oder dem Zurücksetzen von nicht verwalteten Ressourcen zusammenhängen.

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#_DC97FA6E_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public void Dispose() |

#### Implements

[IDisposable.Dispose()](http://msdn2.microsoft.com/en-us/library/es4s3w1d)

## See Also

[SQLiteMemoryDatabase Class](#_71D481EC_Topic)

[SIGENCEScenarioTool.Database.SQLite Namespace](#_DC97FA6E_Topic)

# SQLiteMemoryDatabase.Finalize Method

Finalizes an instance of the [SQLiteMemoryDatabase](#_71D481EC_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#_DC97FA6E_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| protected override void Finalize() |

#### Implements

[Object.Finalize()](http://msdn2.microsoft.com/en-us/library/4k87zsw7)

## See Also

[SQLiteMemoryDatabase Class](#_71D481EC_Topic)

[SIGENCEScenarioTool.Database.SQLite Namespace](#_DC97FA6E_Topic)

# SQLiteMemoryDatabase.Load Method

## Overload List

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Load(FileInfo)](#_C3FFFD6_Topic) | Loads the specified fi. |
| Public method | [Load(String)](#_53F7D312_Topic) | Loads the specified string filename. |

## See Also

[SQLiteMemoryDatabase Class](#_71D481EC_Topic)

[SIGENCEScenarioTool.Database.SQLite Namespace](#_DC97FA6E_Topic)

# SQLiteMemoryDatabase.Load Method (FileInfo)

Loads the specified fi.

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#_DC97FA6E_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public bool Load(  FileInfo fi ) |

#### Parameters

fi

Type: [System.IO.FileInfo](http://msdn2.microsoft.com/en-us/library/akth6b1k)

The fi.

#### Return Value

Type: [Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)

## See Also

[SQLiteMemoryDatabase Class](#_71D481EC_Topic)

[Load Overload](#_7E5CCB58_Topic)

[SIGENCEScenarioTool.Database.SQLite Namespace](#_DC97FA6E_Topic)

# SQLiteMemoryDatabase.Load Method (String)

Loads the specified string filename.

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#_DC97FA6E_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public bool Load(  string strFilename ) |

#### Parameters

strFilename

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The string filename.

#### Return Value

Type: [Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)

## See Also

[SQLiteMemoryDatabase Class](#_71D481EC_Topic)

[Load Overload](#_7E5CCB58_Topic)

[SIGENCEScenarioTool.Database.SQLite Namespace](#_DC97FA6E_Topic)

# SQLiteMemoryDatabase.Save Method

## Overload List

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Save(FileInfo, Boolean, Boolean)](#_91888B35_Topic) | Saves the specified fi. |
| Public method | [Save(String, Boolean, Boolean)](#_4C525DB1_Topic) | Saves the specified string filename. |

## See Also

[SQLiteMemoryDatabase Class](#_71D481EC_Topic)

[SIGENCEScenarioTool.Database.SQLite Namespace](#_DC97FA6E_Topic)

# SQLiteMemoryDatabase.Save Method (FileInfo, Boolean, Boolean)

Saves the specified fi.

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#_DC97FA6E_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public bool Save(  FileInfo fi,  bool bOverWrite = true,  bool bCleanWrite = true ) |

#### Parameters

fi

Type: [System.IO.FileInfo](http://msdn2.microsoft.com/en-us/library/akth6b1k)

The fi.

bOverWrite (Optional)

Type: [System.Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)

if set to true [b over write].

bCleanWrite (Optional)

Type: [System.Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)

if set to true [b clean write].

#### Return Value

Type: [Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)

## See Also

[SQLiteMemoryDatabase Class](#_71D481EC_Topic)

[Save Overload](#_3FE87F0A_Topic)

[SIGENCEScenarioTool.Database.SQLite Namespace](#_DC97FA6E_Topic)

# SQLiteMemoryDatabase.Save Method (String, Boolean, Boolean)

Saves the specified string filename.

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#_DC97FA6E_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public bool Save(  string strFilename,  bool bOverWrite = true,  bool bCleanWrite = true ) |

#### Parameters

strFilename

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The string filename.

bOverWrite (Optional)

Type: [System.Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)

if set to true [b over write].

bCleanWrite (Optional)

Type: [System.Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)

if set to true [b clean write].

#### Return Value

Type: [Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)

## See Also

[SQLiteMemoryDatabase Class](#_71D481EC_Topic)

[Save Overload](#_3FE87F0A_Topic)

[SIGENCEScenarioTool.Database.SQLite Namespace](#_DC97FA6E_Topic)

# SQLiteMemoryDatabase.SQLiteMemoryDatabase Type Conversions

The [SQLiteMemoryDatabase](#_71D481EC_Topic) type exposes the following members.

## Operators

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public operatorStatic member | [Implicit(SQLiteMemoryDatabase to SQLiteConnection)](#_88D829C8_Topic) | Performs an implicit conversion from [SQLiteMemoryDatabase](#_71D481EC_Topic) to **SQLiteConnection**. |

## See Also

[SQLiteMemoryDatabase Class](#_71D481EC_Topic)

[SIGENCEScenarioTool.Database.SQLite Namespace](#_DC97FA6E_Topic)

# SQLiteMemoryDatabase Implicit Conversion (SQLiteMemoryDatabase to SQLiteConnection)

Performs an implicit conversion from [SQLiteMemoryDatabase](#_71D481EC_Topic) to **SQLiteConnection**.

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#_DC97FA6E_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static implicit operator SQLiteConnection (  SQLiteMemoryDatabase memdb ) |

#### Parameters

memdb

Type: [SIGENCEScenarioTool.Database.SQLite.SQLiteMemoryDatabase](#_71D481EC_Topic)

The memdb.

#### Return Value

Type: **SQLiteConnection**  
The result of the conversion.

## See Also

[SQLiteMemoryDatabase Class](#_71D481EC_Topic)

[SIGENCEScenarioTool.Database.SQLite Namespace](#_DC97FA6E_Topic)

# SIGENCEScenarioTool.Datatypes Namespace

## Classes

|  |  |  |
| --- | --- | --- |
|  | Class | Description |
| Public class | [DataTypeBase(T)](#_8D41A27D_Topic) |  |
| Public class | [UnitPrefix](#_14094BDB_Topic) |  |
| Public class | [UnitPrefixs](#_7A31796F_Topic) |  |

# DataTypeBase(T) Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Datatypes.DataTypeBase(T)  
    [SIGENCEScenarioTool.Datatypes.Geo.Altitude](#_6A9A61AE_Topic)  
    [SIGENCEScenarioTool.Datatypes.Geo.Latitude](#_6A3D60D3_Topic)  
    [SIGENCEScenarioTool.Datatypes.Geo.Longitude](#_77376669_Topic)  
    [SIGENCEScenarioTool.Datatypes.Physically.Bandwidth](#_A7A6A49B_Topic)  
    [SIGENCEScenarioTool.Datatypes.Physically.Frequency](#_90ACF8AA_Topic)  
    [SIGENCEScenarioTool.Datatypes.Physically.Gain](#_C8F28179_Topic)  
    [SIGENCEScenarioTool.Datatypes.Physically.SignalToNoiseRatio](#_9D2108AA_Topic)

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public abstract class DataTypeBase<T> where T : Object, IComparable<T>, IEquatable<T> |

#### Type Parameters

T

The DataTypeBase(T) type exposes the following members.

## Constructors

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [DataTypeBase(T)](#_8A0E7AD2_Topic) | Initializes a new instance of the DataTypeBase(T) class. |

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Value](#_B6D1F1CC_Topic) | Gets or sets the value. |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Protected method | [Finalize](http://msdn2.microsoft.com/en-us/library/4k87zsw7) | Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IsValid](#_9CC471E5_Topic) | Returns true if the value is valid, false when he is invalid and null when it is not neccery to check it or not implemented. |
| Protected method | [MemberwiseClone](http://msdn2.microsoft.com/en-us/library/57ctke0a) | Creates a shallow copy of the current [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b). (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [ToString](#_8CEC4468_Topic) | Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance. (Overrides [Object.ToString()](http://msdn2.microsoft.com/en-us/library/7bxwbwt2).) |

## Operators

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public operatorStatic member | [Implicit(DataTypeBase(T)to T)](#_DB1FCCD_Topic) | Liefert den Wert als den generischen Typ zurück. |

## Fields

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Protected fieldStatic member | [CULTUREINFO](#_C5484F0F_Topic) | The ci |

## See Also

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# DataTypeBase(T) Constructor

Initializes a new instance of the [DataTypeBase(T)](#_8D41A27D_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public DataTypeBase(  T value ) |

#### Parameters

value

Type: [T](#_8D41A27D_Topic)

The value.

## See Also

[DataTypeBase(T)Class](#_8D41A27D_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# DataTypeBase(T).DataTypeBase(T) Properties

The [DataTypeBase(T)](#_8D41A27D_Topic) generic type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Value](#_B6D1F1CC_Topic) | Gets or sets the value. |

## See Also

[DataTypeBase(T)Class](#_8D41A27D_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# DataTypeBase(T).Value Property

Gets or sets the value.

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public T Value { get; set; } |

#### Property Value

Type: [T](#_8D41A27D_Topic)  
The value in it's default SI Einheit.

## See Also

[DataTypeBase(T)Class](#_8D41A27D_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# DataTypeBase(T).DataTypeBase(T) Methods

The [DataTypeBase(T)](#_8D41A27D_Topic) generic type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Protected method | [Finalize](http://msdn2.microsoft.com/en-us/library/4k87zsw7) | Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IsValid](#_9CC471E5_Topic) | Returns true if the value is valid, false when he is invalid and null when it is not neccery to check it or not implemented. |
| Protected method | [MemberwiseClone](http://msdn2.microsoft.com/en-us/library/57ctke0a) | Creates a shallow copy of the current [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b). (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [ToString](#_8CEC4468_Topic) | Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance. (Overrides [Object.ToString()](http://msdn2.microsoft.com/en-us/library/7bxwbwt2).) |

## See Also

[DataTypeBase(T)Class](#_8D41A27D_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# DataTypeBase(T).IsValid Method

Returns true if the value is valid, false when he is invalid and null when it is not neccery to check it or not implemented.

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public abstract Nullable<bool> IsValid() |

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50))  
true if this instance is valid; otherwise, false.

## Remarks

This Funktion Is For The Future And Get Currently Not Evaluated Anywhere, So Devired Class Should Throw A NotImplementedException

## See Also

[DataTypeBase(T)Class](#_8D41A27D_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# DataTypeBase(T).ToString Method

Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance.

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public override string ToString() |

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)  
A [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance.

## See Also

[DataTypeBase(T)Class](#_8D41A27D_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# DataTypeBase(T).DataTypeBase(T) Type Conversions

The [DataTypeBase(T)](#_8D41A27D_Topic) generic type exposes the following members.

## Operators

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public operatorStatic member | [Implicit(DataTypeBase(T)to T)](#_DB1FCCD_Topic) | Liefert den Wert als den generischen Typ zurück. |

## See Also

[DataTypeBase(T)Class](#_8D41A27D_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# DataTypeBase(T) Implicit Conversion (DataTypeBase(T) to T)

Liefert den Wert als den generischen Typ zurück.

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static implicit operator T (  DataTypeBase<T> apb ) |

#### Parameters

apb

Type: [SIGENCEScenarioTool.Datatypes.DataTypeBase](#_8D41A27D_Topic)([T](#_8D41A27D_Topic))

The apb.

#### Return Value

Type: [T](#_8D41A27D_Topic)  
The result of the conversion.

## See Also

[DataTypeBase(T)Class](#_8D41A27D_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# DataTypeBase(T).DataTypeBase(T) Fields

The [DataTypeBase(T)](#_8D41A27D_Topic) generic type exposes the following members.

## Fields

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Protected fieldStatic member | [CULTUREINFO](#_C5484F0F_Topic) | The ci |

## See Also

[DataTypeBase(T)Class](#_8D41A27D_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# DataTypeBase(T).CULTUREINFO Field

The ci

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| protected static readonly CultureInfo CULTUREINFO |

#### Field Value

Type: [CultureInfo](http://msdn2.microsoft.com/en-us/library/kx54z3k7)

## See Also

[DataTypeBase(T)Class](#_8D41A27D_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# UnitPrefix Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Datatypes.UnitPrefix

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public sealed class UnitPrefix |

The **UnitPrefix** type exposes the following members.

## Constructors

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [UnitPrefix](#_5F1DB939_Topic) | Initializes a new instance of the **UnitPrefix** class. |

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Factor](#_D23600C3_Topic) | Gets or sets the factor. |
| Public property | [Name](#_B449B8D7_Topic) | Gets or sets the name. |
| Public property | [Symbol](#_3E2CCCEB_Topic) | Gets or sets the symbol. |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |

## See Also

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# UnitPrefix Constructor

Initializes a new instance of the [UnitPrefix](#_14094BDB_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public UnitPrefix(  string strName,  string strSymbol,  double dFactor ) |

#### Parameters

strName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string.

strSymbol

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The string symblo.

dFactor

Type: [System.Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

The d factor.

## See Also

[UnitPrefix Class](#_14094BDB_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# UnitPrefix.UnitPrefix Properties

The [UnitPrefix](#_14094BDB_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Factor](#_D23600C3_Topic) | Gets or sets the factor. |
| Public property | [Name](#_B449B8D7_Topic) | Gets or sets the name. |
| Public property | [Symbol](#_3E2CCCEB_Topic) | Gets or sets the symbol. |

## See Also

[UnitPrefix Class](#_14094BDB_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# UnitPrefix.Factor Property

Gets or sets the factor.

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public double Factor { get; } |

#### Property Value

Type: [Double](http://msdn2.microsoft.com/en-us/library/643eft0t)  
The factor.

## See Also

[UnitPrefix Class](#_14094BDB_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# UnitPrefix.Name Property

Gets or sets the name.

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string Name { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)  
The name.

## See Also

[UnitPrefix Class](#_14094BDB_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# UnitPrefix.Symbol Property

Gets or sets the symbol.

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string Symbol { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)  
The symbol.

## See Also

[UnitPrefix Class](#_14094BDB_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# UnitPrefix.UnitPrefix Methods

The [UnitPrefix](#_14094BDB_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |

## See Also

[UnitPrefix Class](#_14094BDB_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# UnitPrefixs Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Datatypes.UnitPrefixs

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public sealed class UnitPrefixs |

The **UnitPrefixs** type exposes the following members.

## Constructors

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [UnitPrefixs](#_826F3A2B_Topic) | Initializes a new instance of the **UnitPrefixs** class |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |

## Fields

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public fieldStatic member | [Atto](#_DA634DB4_Topic) | The atto |
| Public fieldStatic member | [Default](#_C899BA3A_Topic) | The default |
| Public fieldStatic member | [Exa](#_14C4B0F_Topic) | The exa |
| Public fieldStatic member | [Femto](#_5DF92776_Topic) | The femto |
| Public fieldStatic member | [Giga](#_9C761DB_Topic) | The giga |
| Public fieldStatic member | [Kilo](#_C51AA8D6_Topic) | The kilo |
| Public fieldStatic member | [Mega](#_9C361D1_Topic) | The mega |
| Public fieldStatic member | [Mikro](#_72C7E161_Topic) | The mikro |
| Public fieldStatic member | [Milli](#_16FDB12A_Topic) | The milli |
| Public fieldStatic member | [Nano](#_A61920F_Topic) | The nano |
| Public fieldStatic member | [Peta](#_4C444DC3_Topic) | The peta |
| Public fieldStatic member | [Piko](#_37AED928_Topic) | The piko |
| Public fieldStatic member | [Tera](#_1C310969_Topic) | The tera |

## See Also

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# UnitPrefixs Constructor

Initializes a new instance of the [UnitPrefixs](#_7A31796F_Topic) class

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public UnitPrefixs() |

## See Also

[UnitPrefixs Class](#_7A31796F_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# UnitPrefixs.UnitPrefixs Methods

The [UnitPrefixs](#_7A31796F_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |

## See Also

[UnitPrefixs Class](#_7A31796F_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# UnitPrefixs.UnitPrefixs Fields

The [UnitPrefixs](#_7A31796F_Topic) type exposes the following members.

## Fields

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public fieldStatic member | [Atto](#_DA634DB4_Topic) | The atto |
| Public fieldStatic member | [Default](#_C899BA3A_Topic) | The default |
| Public fieldStatic member | [Exa](#_14C4B0F_Topic) | The exa |
| Public fieldStatic member | [Femto](#_5DF92776_Topic) | The femto |
| Public fieldStatic member | [Giga](#_9C761DB_Topic) | The giga |
| Public fieldStatic member | [Kilo](#_C51AA8D6_Topic) | The kilo |
| Public fieldStatic member | [Mega](#_9C361D1_Topic) | The mega |
| Public fieldStatic member | [Mikro](#_72C7E161_Topic) | The mikro |
| Public fieldStatic member | [Milli](#_16FDB12A_Topic) | The milli |
| Public fieldStatic member | [Nano](#_A61920F_Topic) | The nano |
| Public fieldStatic member | [Peta](#_4C444DC3_Topic) | The peta |
| Public fieldStatic member | [Piko](#_37AED928_Topic) | The piko |
| Public fieldStatic member | [Tera](#_1C310969_Topic) | The tera |

## See Also

[UnitPrefixs Class](#_7A31796F_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# UnitPrefixs.Atto Field

The atto

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly UnitPrefix Atto |

#### Field Value

Type: [UnitPrefix](#_14094BDB_Topic)

## See Also

[UnitPrefixs Class](#_7A31796F_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# UnitPrefixs.Default Field

The default

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly UnitPrefix Default |

#### Field Value

Type: [UnitPrefix](#_14094BDB_Topic)

## See Also

[UnitPrefixs Class](#_7A31796F_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# UnitPrefixs.Exa Field

The exa

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly UnitPrefix Exa |

#### Field Value

Type: [UnitPrefix](#_14094BDB_Topic)

## See Also

[UnitPrefixs Class](#_7A31796F_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# UnitPrefixs.Femto Field

The femto

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly UnitPrefix Femto |

#### Field Value

Type: [UnitPrefix](#_14094BDB_Topic)

## See Also

[UnitPrefixs Class](#_7A31796F_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# UnitPrefixs.Giga Field

The giga

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly UnitPrefix Giga |

#### Field Value

Type: [UnitPrefix](#_14094BDB_Topic)

## See Also

[UnitPrefixs Class](#_7A31796F_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# UnitPrefixs.Kilo Field

The kilo

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly UnitPrefix Kilo |

#### Field Value

Type: [UnitPrefix](#_14094BDB_Topic)

## See Also

[UnitPrefixs Class](#_7A31796F_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# UnitPrefixs.Mega Field

The mega

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly UnitPrefix Mega |

#### Field Value

Type: [UnitPrefix](#_14094BDB_Topic)

## See Also

[UnitPrefixs Class](#_7A31796F_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# UnitPrefixs.Mikro Field

The mikro

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly UnitPrefix Mikro |

#### Field Value

Type: [UnitPrefix](#_14094BDB_Topic)

## See Also

[UnitPrefixs Class](#_7A31796F_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# UnitPrefixs.Milli Field

The milli

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly UnitPrefix Milli |

#### Field Value

Type: [UnitPrefix](#_14094BDB_Topic)

## See Also

[UnitPrefixs Class](#_7A31796F_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# UnitPrefixs.Nano Field

The nano

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly UnitPrefix Nano |

#### Field Value

Type: [UnitPrefix](#_14094BDB_Topic)

## See Also

[UnitPrefixs Class](#_7A31796F_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# UnitPrefixs.Peta Field

The peta

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly UnitPrefix Peta |

#### Field Value

Type: [UnitPrefix](#_14094BDB_Topic)

## See Also

[UnitPrefixs Class](#_7A31796F_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# UnitPrefixs.Piko Field

The piko

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly UnitPrefix Piko |

#### Field Value

Type: [UnitPrefix](#_14094BDB_Topic)

## See Also

[UnitPrefixs Class](#_7A31796F_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# UnitPrefixs.Tera Field

The tera

**Namespace:** [SIGENCEScenarioTool.Datatypes](#_EE9558FC_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly UnitPrefix Tera |

#### Field Value

Type: [UnitPrefix](#_14094BDB_Topic)

## See Also

[UnitPrefixs Class](#_7A31796F_Topic)

[SIGENCEScenarioTool.Datatypes Namespace](#_EE9558FC_Topic)

# SIGENCEScenarioTool.Datatypes.Geo Namespace

## Classes

|  |  |  |
| --- | --- | --- |
|  | Class | Description |
| Public class | [Altitude](#_6A9A61AE_Topic) |  |
| Public class | [GeoNode](#_4B703015_Topic) |  |
| Public class | [GeoNodeCollection](#_2B8668BD_Topic) |  |
| Public class | [Latitude](#_6A3D60D3_Topic) |  |
| Public class | [Longitude](#_77376669_Topic) |  |

# Altitude Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  [SIGENCEScenarioTool.Datatypes.DataTypeBase](#_8D41A27D_Topic)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d))  
    SIGENCEScenarioTool.Datatypes.Geo.Altitude

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#_D07F84E6_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public sealed class Altitude : DataTypeBase<int> |

The **Altitude** type exposes the following members.

## Constructors

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Altitude](#_F4DD622A_Topic) | Initializes a new instance of the **Altitude** class. |

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Value](#_B6D1F1CC_Topic) | Gets or sets the value. (Inherited from [DataTypeBase(T)](#_8D41A27D_Topic).) |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IsValid](#_23CFB61D_Topic) | Returns true if ... is valid. (Overrides [DataTypeBase(T).IsValid()](#_9CC471E5_Topic).) |
| Public method | [ToString](#_8CEC4468_Topic) | Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance. (Inherited from [DataTypeBase(T)](#_8D41A27D_Topic).) |

## Operators

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public operatorStatic member | [Implicit(Int32 to Altitude)](#_5A780CFE_Topic) | Performs an implicit conversion from [Int32](http://msdn2.microsoft.com/en-us/library/td2s409d) to **Altitude**. |

## See Also

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

**[!:SIGENCEScenarioTool.Datatypes.DataTypeBase<int>]**

# Altitude Constructor

Initializes a new instance of the [Altitude](#_6A9A61AE_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#_D07F84E6_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public Altitude(  int value ) |

#### Parameters

value

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

The value.

## See Also

[Altitude Class](#_6A9A61AE_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# Altitude.Altitude Properties

The [Altitude](#_6A9A61AE_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Value](#_B6D1F1CC_Topic) | Gets or sets the value. (Inherited from [DataTypeBase(T)](#_8D41A27D_Topic).) |

## See Also

[Altitude Class](#_6A9A61AE_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# Altitude.Altitude Methods

The [Altitude](#_6A9A61AE_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IsValid](#_23CFB61D_Topic) | Returns true if ... is valid. (Overrides [DataTypeBase(T).IsValid()](#_9CC471E5_Topic).) |
| Public method | [ToString](#_8CEC4468_Topic) | Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance. (Inherited from [DataTypeBase(T)](#_8D41A27D_Topic).) |

## See Also

[Altitude Class](#_6A9A61AE_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# Altitude.IsValid Method

Returns true if ... is valid.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#_D07F84E6_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public override Nullable<bool> IsValid() |

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50))  
true if this instance is valid; otherwise, false.

## See Also

[Altitude Class](#_6A9A61AE_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# Altitude.Altitude Type Conversions

The [Altitude](#_6A9A61AE_Topic) type exposes the following members.

## Operators

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public operatorStatic member | [Implicit(Int32 to Altitude)](#_5A780CFE_Topic) | Performs an implicit conversion from [Int32](http://msdn2.microsoft.com/en-us/library/td2s409d) to [Altitude](#_6A9A61AE_Topic). |

## See Also

[Altitude Class](#_6A9A61AE_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# Altitude Implicit Conversion (Int32 to Altitude)

Performs an implicit conversion from [Int32](http://msdn2.microsoft.com/en-us/library/td2s409d) to [Altitude](#_6A9A61AE_Topic).

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#_D07F84E6_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static implicit operator Altitude (  int value ) |

#### Parameters

value

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

The value.

#### Return Value

Type: [Altitude](#_6A9A61AE_Topic)  
The result of the conversion.

## See Also

[Altitude Class](#_6A9A61AE_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# GeoNode Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Datatypes.Geo.GeoNode

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#_D07F84E6_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public sealed class GeoNode |

The **GeoNode** type exposes the following members.

## Constructors

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [GeoNode](#_6489A0AA_Topic) | Initializes a new instance of the **GeoNode** class |

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Latitude](#_58A1D72B_Topic) | Gets or sets the latitude. |
| Public property | [Longitude](#_926041B3_Topic) | Gets or sets the longitude. |
| Public property | [Name](#_216749F0_Topic) | Gets or sets the name. |
| Public property | [NodeId](#_CBDD437E_Topic) | Gets or sets the node identifier. |
| Public property | [Position](#_1ED0D32F_Topic) | Gets the position. |
| Public property | [Tag](#_838D05A8_Topic) | Gets or sets the tag. |
| Public property | [Value](#_6D77A1B2_Topic) | Gets or sets the value. |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |

## See Also

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# GeoNode Constructor

Initializes a new instance of the [GeoNode](#_4B703015_Topic) class

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#_D07F84E6_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public GeoNode() |

## See Also

[GeoNode Class](#_4B703015_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# GeoNode.GeoNode Properties

The [GeoNode](#_4B703015_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Latitude](#_58A1D72B_Topic) | Gets or sets the latitude. |
| Public property | [Longitude](#_926041B3_Topic) | Gets or sets the longitude. |
| Public property | [Name](#_216749F0_Topic) | Gets or sets the name. |
| Public property | [NodeId](#_CBDD437E_Topic) | Gets or sets the node identifier. |
| Public property | [Position](#_1ED0D32F_Topic) | Gets the position. |
| Public property | [Tag](#_838D05A8_Topic) | Gets or sets the tag. |
| Public property | [Value](#_6D77A1B2_Topic) | Gets or sets the value. |

## See Also

[GeoNode Class](#_4B703015_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# GeoNode.Latitude Property

Gets or sets the latitude.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#_D07F84E6_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public Latitude Latitude { get; } |

#### Property Value

Type: [Latitude](#_6A3D60D3_Topic)  
The latitude.

## See Also

[GeoNode Class](#_4B703015_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# GeoNode.Longitude Property

Gets or sets the longitude.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#_D07F84E6_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public Longitude Longitude { get; } |

#### Property Value

Type: [Longitude](#_77376669_Topic)  
The longitude.

## See Also

[GeoNode Class](#_4B703015_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# GeoNode.Name Property

Gets or sets the name.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#_D07F84E6_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string Name { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)  
The name.

## See Also

[GeoNode Class](#_4B703015_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# GeoNode.NodeId Property

Gets or sets the node identifier.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#_D07F84E6_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public long NodeId { get; } |

#### Property Value

Type: [Int64](http://msdn2.microsoft.com/en-us/library/6yy583ek)  
The node identifier.

## See Also

[GeoNode Class](#_4B703015_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# GeoNode.Position Property

Gets the position.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#_D07F84E6_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public PointLatLng Position { get; } |

#### Property Value

Type: **PointLatLng**  
The position.

## See Also

[GeoNode Class](#_4B703015_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# GeoNode.Tag Property

Gets or sets the tag.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#_D07F84E6_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public GeoTag Tag { get; } |

#### Property Value

Type: [GeoTag](#_A0CA15FA_Topic)  
The tag.

## See Also

[GeoNode Class](#_4B703015_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# GeoNode.Value Property

Gets or sets the value.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#_D07F84E6_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string Value { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)  
The value.

## See Also

[GeoNode Class](#_4B703015_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# GeoNode.GeoNode Methods

The [GeoNode](#_4B703015_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |

## See Also

[GeoNode Class](#_4B703015_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# GeoNodeCollection Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  [System.Collections.ObjectModel.Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([GeoNode](#_4B703015_Topic))  
    [System.Collections.ObjectModel.ObservableCollection](http://msdn2.microsoft.com/en-us/library/ms668604)([GeoNode](#_4B703015_Topic))  
      SIGENCEScenarioTool.Datatypes.Geo.GeoNodeCollection

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#_D07F84E6_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public sealed class GeoNodeCollection : ObservableCollection<GeoNode> |

The **GeoNodeCollection** type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Count](http://msdn2.microsoft.com/en-us/library/ms132433) | Gets the number of elements actually contained in the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([GeoNode](#_4B703015_Topic)).) |
| Public property | [Item](http://msdn2.microsoft.com/en-us/library/ms132434) | Gets or sets the element at the specified index. (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([GeoNode](#_4B703015_Topic)).) |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Add](http://msdn2.microsoft.com/en-us/library/ms132404) | Adds an object to the end of the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([GeoNode](#_4B703015_Topic)).) |
| Public method | [Clear](http://msdn2.microsoft.com/en-us/library/ms132405) | Removes all elements from the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([GeoNode](#_4B703015_Topic)).) |
| Public method | [Contains](http://msdn2.microsoft.com/en-us/library/ms132407) | Determines whether an element is in the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([GeoNode](#_4B703015_Topic)).) |
| Public method | [CopyTo](http://msdn2.microsoft.com/en-us/library/ms132408) | Copies the entire [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397) to a compatible one-dimensional [Array](http://msdn2.microsoft.com/en-us/library/czz5hkty), starting at the specified index of the target array. (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([GeoNode](#_4B703015_Topic)).) |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public methodStatic member | [GetCollection](#_CCAF4C24_Topic) | Gets the collection. |
| Public method | [GetEnumerator](http://msdn2.microsoft.com/en-us/library/ms132409) | Returns an enumerator that iterates through the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([GeoNode](#_4B703015_Topic)).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IndexOf](http://msdn2.microsoft.com/en-us/library/ms132410) | Searches for the specified object and returns the zero-based index of the first occurrence within the entire [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([GeoNode](#_4B703015_Topic)).) |
| Public method | [Insert](http://msdn2.microsoft.com/en-us/library/ms132411) | Inserts an element into the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397) at the specified index. (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([GeoNode](#_4B703015_Topic)).) |
| Public method | [Move](http://msdn2.microsoft.com/en-us/library/ms654933) | Moves the item at the specified index to a new location in the collection. (Inherited from [ObservableCollection](http://msdn2.microsoft.com/en-us/library/ms668604)([GeoNode](#_4B703015_Topic)).) |
| Public method | [Remove](http://msdn2.microsoft.com/en-us/library/ms132413) | Removes the first occurrence of a specific object from the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([GeoNode](#_4B703015_Topic)).) |
| Public method | [RemoveAt](http://msdn2.microsoft.com/en-us/library/ms132414) | Removes the element at the specified index of the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([GeoNode](#_4B703015_Topic)).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |

## Events

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public event | [CollectionChanged](http://msdn2.microsoft.com/en-us/library/ms653375) | Occurs when an item is added, removed, changed, moved, or the entire list is refreshed. (Inherited from [ObservableCollection](http://msdn2.microsoft.com/en-us/library/ms668604)([GeoNode](#_4B703015_Topic)).) |

## See Also

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

**[!:System.Collections.ObjectModel.ObservableCollection<SIGENCEScenarioTool.Models.Database.GeoDb.GeoNode>]**

# GeoNodeCollection.GeoNodeCollection Properties

The [GeoNodeCollection](#_2B8668BD_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Count](http://msdn2.microsoft.com/en-us/library/ms132433) | Gets the number of elements actually contained in the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([GeoNode](#_4B703015_Topic)).) |
| Public property | [Item](http://msdn2.microsoft.com/en-us/library/ms132434) | Gets or sets the element at the specified index. (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([GeoNode](#_4B703015_Topic)).) |

## See Also

[GeoNodeCollection Class](#_2B8668BD_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# GeoNodeCollection.GeoNodeCollection Methods

The [GeoNodeCollection](#_2B8668BD_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Add](http://msdn2.microsoft.com/en-us/library/ms132404) | Adds an object to the end of the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([GeoNode](#_4B703015_Topic)).) |
| Public method | [Clear](http://msdn2.microsoft.com/en-us/library/ms132405) | Removes all elements from the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([GeoNode](#_4B703015_Topic)).) |
| Public method | [Contains](http://msdn2.microsoft.com/en-us/library/ms132407) | Determines whether an element is in the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([GeoNode](#_4B703015_Topic)).) |
| Public method | [CopyTo](http://msdn2.microsoft.com/en-us/library/ms132408) | Copies the entire [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397) to a compatible one-dimensional [Array](http://msdn2.microsoft.com/en-us/library/czz5hkty), starting at the specified index of the target array. (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([GeoNode](#_4B703015_Topic)).) |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public methodStatic member | [GetCollection](#_CCAF4C24_Topic) | Gets the collection. |
| Public method | [GetEnumerator](http://msdn2.microsoft.com/en-us/library/ms132409) | Returns an enumerator that iterates through the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([GeoNode](#_4B703015_Topic)).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IndexOf](http://msdn2.microsoft.com/en-us/library/ms132410) | Searches for the specified object and returns the zero-based index of the first occurrence within the entire [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([GeoNode](#_4B703015_Topic)).) |
| Public method | [Insert](http://msdn2.microsoft.com/en-us/library/ms132411) | Inserts an element into the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397) at the specified index. (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([GeoNode](#_4B703015_Topic)).) |
| Public method | [Move](http://msdn2.microsoft.com/en-us/library/ms654933) | Moves the item at the specified index to a new location in the collection. (Inherited from [ObservableCollection](http://msdn2.microsoft.com/en-us/library/ms668604)([GeoNode](#_4B703015_Topic)).) |
| Public method | [Remove](http://msdn2.microsoft.com/en-us/library/ms132413) | Removes the first occurrence of a specific object from the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([GeoNode](#_4B703015_Topic)).) |
| Public method | [RemoveAt](http://msdn2.microsoft.com/en-us/library/ms132414) | Removes the element at the specified index of the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([GeoNode](#_4B703015_Topic)).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |

## See Also

[GeoNodeCollection Class](#_2B8668BD_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# GeoNodeCollection.GetCollection Method

Gets the collection.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#_D07F84E6_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static GeoNodeCollection GetCollection(  string strDatabaseFilename,  Nullable<GeoTag> geotag = null ) |

#### Parameters

strDatabaseFilename

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The string database filename.

geotag (Optional)

Type: [System.Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([GeoTag](#_A0CA15FA_Topic))

The geotag.

#### Return Value

Type: [GeoNodeCollection](#_2B8668BD_Topic)

## Exceptions

|  |  |
| --- | --- |
| Exception | Condition |
| [ArgumentException](http://msdn2.microsoft.com/en-us/library/3w1b3114) | The parameter should not be empty! - strDatabaseFilename |
| [FileNotFoundException](http://msdn2.microsoft.com/en-us/library/dzyy5k3x) | The database can't not be found! |

## See Also

[GeoNodeCollection Class](#_2B8668BD_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# GeoNodeCollection.GeoNodeCollection Events

The [GeoNodeCollection](#_2B8668BD_Topic) type exposes the following members.

## Events

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public event | [CollectionChanged](http://msdn2.microsoft.com/en-us/library/ms653375) | Occurs when an item is added, removed, changed, moved, or the entire list is refreshed. (Inherited from [ObservableCollection](http://msdn2.microsoft.com/en-us/library/ms668604)([GeoNode](#_4B703015_Topic)).) |

## See Also

[GeoNodeCollection Class](#_2B8668BD_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# Latitude Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  [SIGENCEScenarioTool.Datatypes.DataTypeBase](#_8D41A27D_Topic)([Double](http://msdn2.microsoft.com/en-us/library/643eft0t))  
    SIGENCEScenarioTool.Datatypes.Geo.Latitude

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#_D07F84E6_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public sealed class Latitude : DataTypeBase<double> |

The **Latitude** type exposes the following members.

## Constructors

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Latitude](#_600C1DAA_Topic) | Initializes a new instance of the **Latitude** class. |

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Value](#_B6D1F1CC_Topic) | Gets or sets the value. (Inherited from [DataTypeBase(T)](#_8D41A27D_Topic).) |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IsValid](#_9242719D_Topic) | Returns true if ... is valid. (Overrides [DataTypeBase(T).IsValid()](#_9CC471E5_Topic).) |
| Public method | [ToString](#_E47D4AB5_Topic) | Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance. (Overrides [DataTypeBase(T).ToString()](#_8CEC4468_Topic).) |

## Operators

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public operatorStatic member | [Implicit(Double to Latitude)](#_A786386C_Topic) | Performs an implicit conversion from [Double](http://msdn2.microsoft.com/en-us/library/643eft0t) to **Latitude**. |

## See Also

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

**[!:SIGENCEScenarioTool.Datatypes.DataTypeBase<double>]**

# Latitude Constructor

Initializes a new instance of the [Latitude](#_6A3D60D3_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#_D07F84E6_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public Latitude(  double value ) |

#### Parameters

value

Type: [System.Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

The value.

## See Also

[Latitude Class](#_6A3D60D3_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# Latitude.Latitude Properties

The [Latitude](#_6A3D60D3_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Value](#_B6D1F1CC_Topic) | Gets or sets the value. (Inherited from [DataTypeBase(T)](#_8D41A27D_Topic).) |

## See Also

[Latitude Class](#_6A3D60D3_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# Latitude.Latitude Methods

The [Latitude](#_6A3D60D3_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IsValid](#_9242719D_Topic) | Returns true if ... is valid. (Overrides [DataTypeBase(T).IsValid()](#_9CC471E5_Topic).) |
| Public method | [ToString](#_E47D4AB5_Topic) | Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance. (Overrides [DataTypeBase(T).ToString()](#_8CEC4468_Topic).) |

## See Also

[Latitude Class](#_6A3D60D3_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# Latitude.IsValid Method

Returns true if ... is valid.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#_D07F84E6_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public override Nullable<bool> IsValid() |

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50))  
true if this instance is valid; otherwise, false.

## See Also

[Latitude Class](#_6A3D60D3_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# Latitude.ToString Method

Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#_D07F84E6_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public override string ToString() |

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)  
A [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance.

## See Also

[Latitude Class](#_6A3D60D3_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# Latitude.Latitude Type Conversions

The [Latitude](#_6A3D60D3_Topic) type exposes the following members.

## Operators

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public operatorStatic member | [Implicit(Double to Latitude)](#_A786386C_Topic) | Performs an implicit conversion from [Double](http://msdn2.microsoft.com/en-us/library/643eft0t) to [Latitude](#_6A3D60D3_Topic). |

## See Also

[Latitude Class](#_6A3D60D3_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# Latitude Implicit Conversion (Double to Latitude)

Performs an implicit conversion from [Double](http://msdn2.microsoft.com/en-us/library/643eft0t) to [Latitude](#_6A3D60D3_Topic).

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#_D07F84E6_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static implicit operator Latitude (  double value ) |

#### Parameters

value

Type: [System.Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

The value.

#### Return Value

Type: [Latitude](#_6A3D60D3_Topic)  
The result of the conversion.

## See Also

[Latitude Class](#_6A3D60D3_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# Longitude Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  [SIGENCEScenarioTool.Datatypes.DataTypeBase](#_8D41A27D_Topic)([Double](http://msdn2.microsoft.com/en-us/library/643eft0t))  
    SIGENCEScenarioTool.Datatypes.Geo.Longitude

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#_D07F84E6_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public sealed class Longitude : DataTypeBase<double> |

The **Longitude** type exposes the following members.

## Constructors

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Longitude](#_3A87C356_Topic) | Initializes a new instance of the **Longitude** class. |

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Value](#_B6D1F1CC_Topic) | Gets or sets the value. (Inherited from [DataTypeBase(T)](#_8D41A27D_Topic).) |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IsValid](#_4804CA49_Topic) | Returns true if ... is valid. (Overrides [DataTypeBase(T).IsValid()](#_9CC471E5_Topic).) |
| Public method | [ToString](#_AABC2FF3_Topic) | Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance. (Overrides [DataTypeBase(T).ToString()](#_8CEC4468_Topic).) |

## Operators

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public operatorStatic member | [Implicit(Double to Longitude)](#_FF8FB33_Topic) | Performs an implicit conversion from [Double](http://msdn2.microsoft.com/en-us/library/643eft0t) to **Longitude**. |

## See Also

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

**[!:SIGENCEScenarioTool.Datatypes.DataTypeBase<double>]**

# Longitude Constructor

Initializes a new instance of the [Longitude](#_77376669_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#_D07F84E6_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public Longitude(  double value ) |

#### Parameters

value

Type: [System.Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

The value.

## See Also

[Longitude Class](#_77376669_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# Longitude.Longitude Properties

The [Longitude](#_77376669_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Value](#_B6D1F1CC_Topic) | Gets or sets the value. (Inherited from [DataTypeBase(T)](#_8D41A27D_Topic).) |

## See Also

[Longitude Class](#_77376669_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# Longitude.Longitude Methods

The [Longitude](#_77376669_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IsValid](#_4804CA49_Topic) | Returns true if ... is valid. (Overrides [DataTypeBase(T).IsValid()](#_9CC471E5_Topic).) |
| Public method | [ToString](#_AABC2FF3_Topic) | Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance. (Overrides [DataTypeBase(T).ToString()](#_8CEC4468_Topic).) |

## See Also

[Longitude Class](#_77376669_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# Longitude.IsValid Method

Returns true if ... is valid.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#_D07F84E6_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public override Nullable<bool> IsValid() |

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50))  
true if this instance is valid; otherwise, false.

## See Also

[Longitude Class](#_77376669_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# Longitude.ToString Method

Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#_D07F84E6_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public override string ToString() |

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)  
A [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance.

## See Also

[Longitude Class](#_77376669_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# Longitude.Longitude Type Conversions

The [Longitude](#_77376669_Topic) type exposes the following members.

## Operators

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public operatorStatic member | [Implicit(Double to Longitude)](#_FF8FB33_Topic) | Performs an implicit conversion from [Double](http://msdn2.microsoft.com/en-us/library/643eft0t) to [Longitude](#_77376669_Topic). |

## See Also

[Longitude Class](#_77376669_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# Longitude Implicit Conversion (Double to Longitude)

Performs an implicit conversion from [Double](http://msdn2.microsoft.com/en-us/library/643eft0t) to [Longitude](#_77376669_Topic).

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#_D07F84E6_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static implicit operator Longitude (  double value ) |

#### Parameters

value

Type: [System.Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

The value.

#### Return Value

Type: [Longitude](#_77376669_Topic)  
The result of the conversion.

## See Also

[Longitude Class](#_77376669_Topic)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#_D07F84E6_Topic)

# SIGENCEScenarioTool.Datatypes.Observable Namespace

## Classes

|  |  |  |
| --- | --- | --- |
|  | Class | Description |
| Public class | [ObservableStringCollection](#_1352CBA3_Topic) |  |

# ObservableStringCollection Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  [System.Collections.ObjectModel.Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf))  
    [System.Collections.ObjectModel.ObservableCollection](http://msdn2.microsoft.com/en-us/library/ms668604)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf))  
      SIGENCEScenarioTool.Datatypes.Observable.ObservableStringCollection

**Namespace:** [SIGENCEScenarioTool.Datatypes.Observable](#_E7BD8A41_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public sealed class ObservableStringCollection : ObservableCollection<string> |

The **ObservableStringCollection** type exposes the following members.

## Constructors

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [ObservableStringCollection](#_36F4D72_Topic) | Initializes a new instance of the **ObservableStringCollection** class |

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Count](http://msdn2.microsoft.com/en-us/library/ms132433) | Gets the number of elements actually contained in the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public property | [Item](http://msdn2.microsoft.com/en-us/library/ms132434) | Gets or sets the element at the specified index. (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Add](http://msdn2.microsoft.com/en-us/library/ms132404) | Adds an object to the end of the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Clear](http://msdn2.microsoft.com/en-us/library/ms132405) | Removes all elements from the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Contains](http://msdn2.microsoft.com/en-us/library/ms132407) | Determines whether an element is in the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [CopyTo](http://msdn2.microsoft.com/en-us/library/ms132408) | Copies the entire [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397) to a compatible one-dimensional [Array](http://msdn2.microsoft.com/en-us/library/czz5hkty), starting at the specified index of the target array. (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetEnumerator](http://msdn2.microsoft.com/en-us/library/ms132409) | Returns an enumerator that iterates through the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IndexOf](http://msdn2.microsoft.com/en-us/library/ms132410) | Searches for the specified object and returns the zero-based index of the first occurrence within the entire [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Insert](http://msdn2.microsoft.com/en-us/library/ms132411) | Inserts an element into the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397) at the specified index. (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Move](http://msdn2.microsoft.com/en-us/library/ms654933) | Moves the item at the specified index to a new location in the collection. (Inherited from [ObservableCollection](http://msdn2.microsoft.com/en-us/library/ms668604)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Remove](http://msdn2.microsoft.com/en-us/library/ms132413) | Removes the first occurrence of a specific object from the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [RemoveAt](http://msdn2.microsoft.com/en-us/library/ms132414) | Removes the element at the specified index of the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |

## Events

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public event | [CollectionChanged](http://msdn2.microsoft.com/en-us/library/ms653375) | Occurs when an item is added, removed, changed, moved, or the entire list is refreshed. (Inherited from [ObservableCollection](http://msdn2.microsoft.com/en-us/library/ms668604)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |

## See Also

[SIGENCEScenarioTool.Datatypes.Observable Namespace](#_E7BD8A41_Topic)

**[!:System.Collections.ObjectModel.ObservableCollection<System.String>]**

# ObservableStringCollection Constructor

Initializes a new instance of the [ObservableStringCollection](#_1352CBA3_Topic) class

**Namespace:** [SIGENCEScenarioTool.Datatypes.Observable](#_E7BD8A41_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public ObservableStringCollection() |

## See Also

[ObservableStringCollection Class](#_1352CBA3_Topic)

[SIGENCEScenarioTool.Datatypes.Observable Namespace](#_E7BD8A41_Topic)

# ObservableStringCollection.ObservableStringCollection Properties

The [ObservableStringCollection](#_1352CBA3_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Count](http://msdn2.microsoft.com/en-us/library/ms132433) | Gets the number of elements actually contained in the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public property | [Item](http://msdn2.microsoft.com/en-us/library/ms132434) | Gets or sets the element at the specified index. (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |

## See Also

[ObservableStringCollection Class](#_1352CBA3_Topic)

[SIGENCEScenarioTool.Datatypes.Observable Namespace](#_E7BD8A41_Topic)

# ObservableStringCollection.ObservableStringCollection Methods

The [ObservableStringCollection](#_1352CBA3_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Add](http://msdn2.microsoft.com/en-us/library/ms132404) | Adds an object to the end of the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Clear](http://msdn2.microsoft.com/en-us/library/ms132405) | Removes all elements from the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Contains](http://msdn2.microsoft.com/en-us/library/ms132407) | Determines whether an element is in the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [CopyTo](http://msdn2.microsoft.com/en-us/library/ms132408) | Copies the entire [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397) to a compatible one-dimensional [Array](http://msdn2.microsoft.com/en-us/library/czz5hkty), starting at the specified index of the target array. (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetEnumerator](http://msdn2.microsoft.com/en-us/library/ms132409) | Returns an enumerator that iterates through the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IndexOf](http://msdn2.microsoft.com/en-us/library/ms132410) | Searches for the specified object and returns the zero-based index of the first occurrence within the entire [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Insert](http://msdn2.microsoft.com/en-us/library/ms132411) | Inserts an element into the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397) at the specified index. (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Move](http://msdn2.microsoft.com/en-us/library/ms654933) | Moves the item at the specified index to a new location in the collection. (Inherited from [ObservableCollection](http://msdn2.microsoft.com/en-us/library/ms668604)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Remove](http://msdn2.microsoft.com/en-us/library/ms132413) | Removes the first occurrence of a specific object from the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [RemoveAt](http://msdn2.microsoft.com/en-us/library/ms132414) | Removes the element at the specified index of the [Collection(T)](http://msdn2.microsoft.com/en-us/library/ms132397). (Inherited from [Collection](http://msdn2.microsoft.com/en-us/library/ms132397)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |

## See Also

[ObservableStringCollection Class](#_1352CBA3_Topic)

[SIGENCEScenarioTool.Datatypes.Observable Namespace](#_E7BD8A41_Topic)

# ObservableStringCollection.ObservableStringCollection Events

The [ObservableStringCollection](#_1352CBA3_Topic) type exposes the following members.

## Events

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public event | [CollectionChanged](http://msdn2.microsoft.com/en-us/library/ms653375) | Occurs when an item is added, removed, changed, moved, or the entire list is refreshed. (Inherited from [ObservableCollection](http://msdn2.microsoft.com/en-us/library/ms668604)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |

## See Also

[ObservableStringCollection Class](#_1352CBA3_Topic)

[SIGENCEScenarioTool.Datatypes.Observable Namespace](#_E7BD8A41_Topic)

# SIGENCEScenarioTool.Datatypes.Physically Namespace

## Classes

|  |  |  |
| --- | --- | --- |
|  | Class | Description |
| Public class | [Bandwidth](#_A7A6A49B_Topic) |  |
| Public class | [Frequency](#_90ACF8AA_Topic) |  |
| Public class | [Gain](#_C8F28179_Topic) |  |
| Public class | [SignalToNoiseRatio](#_9D2108AA_Topic) |  |

# Bandwidth Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  [SIGENCEScenarioTool.Datatypes.DataTypeBase](#_8D41A27D_Topic)([Double](http://msdn2.microsoft.com/en-us/library/643eft0t))  
    SIGENCEScenarioTool.Datatypes.Physically.Bandwidth

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#_A0B0D309_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public sealed class Bandwidth : DataTypeBase<double> |

The **Bandwidth** type exposes the following members.

## Constructors

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Bandwidth](#_801DE674_Topic) | Initializes a new instance of the **Bandwidth** class. |

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Value](#_B6D1F1CC_Topic) | Gets or sets the value. (Inherited from [DataTypeBase(T)](#_8D41A27D_Topic).) |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IsValid](#_CF48013A_Topic) | Returns true if ... is valid. (Overrides [DataTypeBase(T).IsValid()](#_9CC471E5_Topic).) |
| Public method | [ToString](#_405CEF70_Topic) | Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance. (Overrides [DataTypeBase(T).ToString()](#_8CEC4468_Topic).) |

## Operators

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public operatorStatic member | [Implicit(Double to Bandwidth)](#_691F9F5_Topic) | Performs an implicit conversion from [Double](http://msdn2.microsoft.com/en-us/library/643eft0t) to **Bandwidth**. |

## See Also

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

**[!:SIGENCEScenarioTool.Datatypes.DataTypeBase<System.Double>]**

# Bandwidth Constructor

Initializes a new instance of the [Bandwidth](#_A7A6A49B_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#_A0B0D309_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public Bandwidth(  double value ) |

#### Parameters

value

Type: [System.Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

The value.

## See Also

[Bandwidth Class](#_A7A6A49B_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# Bandwidth.Bandwidth Properties

The [Bandwidth](#_A7A6A49B_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Value](#_B6D1F1CC_Topic) | Gets or sets the value. (Inherited from [DataTypeBase(T)](#_8D41A27D_Topic).) |

## See Also

[Bandwidth Class](#_A7A6A49B_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# Bandwidth.Bandwidth Methods

The [Bandwidth](#_A7A6A49B_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IsValid](#_CF48013A_Topic) | Returns true if ... is valid. (Overrides [DataTypeBase(T).IsValid()](#_9CC471E5_Topic).) |
| Public method | [ToString](#_405CEF70_Topic) | Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance. (Overrides [DataTypeBase(T).ToString()](#_8CEC4468_Topic).) |

## See Also

[Bandwidth Class](#_A7A6A49B_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# Bandwidth.IsValid Method

Returns true if ... is valid.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#_A0B0D309_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public override Nullable<bool> IsValid() |

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50))  
true if this instance is valid; otherwise, false.

## See Also

[Bandwidth Class](#_A7A6A49B_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# Bandwidth.ToString Method

Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#_A0B0D309_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public override string ToString() |

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)  
A [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance.

## See Also

[Bandwidth Class](#_A7A6A49B_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# Bandwidth.Bandwidth Type Conversions

The [Bandwidth](#_A7A6A49B_Topic) type exposes the following members.

## Operators

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public operatorStatic member | [Implicit(Double to Bandwidth)](#_691F9F5_Topic) | Performs an implicit conversion from [Double](http://msdn2.microsoft.com/en-us/library/643eft0t) to [Bandwidth](#_A7A6A49B_Topic). |

## See Also

[Bandwidth Class](#_A7A6A49B_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# Bandwidth Implicit Conversion (Double to Bandwidth)

Performs an implicit conversion from [Double](http://msdn2.microsoft.com/en-us/library/643eft0t) to [Bandwidth](#_A7A6A49B_Topic).

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#_A0B0D309_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static implicit operator Bandwidth (  double value ) |

#### Parameters

value

Type: [System.Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

The value.

#### Return Value

Type: [Bandwidth](#_A7A6A49B_Topic)  
The result of the conversion.

## See Also

[Bandwidth Class](#_A7A6A49B_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# Frequency Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  [SIGENCEScenarioTool.Datatypes.DataTypeBase](#_8D41A27D_Topic)([Double](http://msdn2.microsoft.com/en-us/library/643eft0t))  
    SIGENCEScenarioTool.Datatypes.Physically.Frequency

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#_A0B0D309_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public sealed class Frequency : DataTypeBase<double> |

The **Frequency** type exposes the following members.

## Constructors

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Frequency](#_7A19AA82_Topic) | Initializes a new instance of the **Frequency** class. |

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Value](#_B6D1F1CC_Topic) | Gets or sets the value. (Inherited from [DataTypeBase(T)](#_8D41A27D_Topic).) |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IsValid](#_4C91D745_Topic) | Returns true if ... is valid. (Overrides [DataTypeBase(T).IsValid()](#_9CC471E5_Topic).) |
| Public method | [ToString](#_C465D9A6_Topic) | Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance. (Overrides [DataTypeBase(T).ToString()](#_8CEC4468_Topic).) |

## Operators

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public operatorStatic member | [Implicit(Double to Frequency)](#_440A2524_Topic) | Performs an implicit conversion from [Double](http://msdn2.microsoft.com/en-us/library/643eft0t) to **Frequency**. |

## See Also

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

**[!:SIGENCEScenarioTool.Datatypes.DataTypeBase<System.Double>]**

# Frequency Constructor

Initializes a new instance of the [Frequency](#_90ACF8AA_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#_A0B0D309_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public Frequency(  double value ) |

#### Parameters

value

Type: [System.Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

The value.

## See Also

[Frequency Class](#_90ACF8AA_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# Frequency.Frequency Properties

The [Frequency](#_90ACF8AA_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Value](#_B6D1F1CC_Topic) | Gets or sets the value. (Inherited from [DataTypeBase(T)](#_8D41A27D_Topic).) |

## See Also

[Frequency Class](#_90ACF8AA_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# Frequency.Frequency Methods

The [Frequency](#_90ACF8AA_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IsValid](#_4C91D745_Topic) | Returns true if ... is valid. (Overrides [DataTypeBase(T).IsValid()](#_9CC471E5_Topic).) |
| Public method | [ToString](#_C465D9A6_Topic) | Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance. (Overrides [DataTypeBase(T).ToString()](#_8CEC4468_Topic).) |

## See Also

[Frequency Class](#_90ACF8AA_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# Frequency.IsValid Method

Returns true if ... is valid.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#_A0B0D309_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public override Nullable<bool> IsValid() |

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50))  
true if this instance is valid; otherwise, false.

## See Also

[Frequency Class](#_90ACF8AA_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# Frequency.ToString Method

Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#_A0B0D309_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public override string ToString() |

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)  
A [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance.

## See Also

[Frequency Class](#_90ACF8AA_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# Frequency.Frequency Type Conversions

The [Frequency](#_90ACF8AA_Topic) type exposes the following members.

## Operators

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public operatorStatic member | [Implicit(Double to Frequency)](#_440A2524_Topic) | Performs an implicit conversion from [Double](http://msdn2.microsoft.com/en-us/library/643eft0t) to [Frequency](#_90ACF8AA_Topic). |

## See Also

[Frequency Class](#_90ACF8AA_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# Frequency Implicit Conversion (Double to Frequency)

Performs an implicit conversion from [Double](http://msdn2.microsoft.com/en-us/library/643eft0t) to [Frequency](#_90ACF8AA_Topic).

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#_A0B0D309_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static implicit operator Frequency (  double value ) |

#### Parameters

value

Type: [System.Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

The value.

#### Return Value

Type: [Frequency](#_90ACF8AA_Topic)  
The result of the conversion.

## See Also

[Frequency Class](#_90ACF8AA_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# Gain Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  [SIGENCEScenarioTool.Datatypes.DataTypeBase](#_8D41A27D_Topic)([Double](http://msdn2.microsoft.com/en-us/library/643eft0t))  
    SIGENCEScenarioTool.Datatypes.Physically.Gain

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#_A0B0D309_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public sealed class Gain : DataTypeBase<double> |

The **Gain** type exposes the following members.

## Constructors

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Gain](#_88C8B00C_Topic) | Initializes a new instance of the **Gain** class. |

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Value](#_B6D1F1CC_Topic) | Gets or sets the value. (Inherited from [DataTypeBase(T)](#_8D41A27D_Topic).) |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IsValid](#_2926BB18_Topic) | Returns true if ... is valid. (Overrides [DataTypeBase(T).IsValid()](#_9CC471E5_Topic).) |
| Public method | [ToString](#_795C09DE_Topic) | Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance. (Overrides [DataTypeBase(T).ToString()](#_8CEC4468_Topic).) |

## Operators

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public operatorStatic member | [Implicit(Double to Gain)](#_D6FE8E2E_Topic) | Performs an implicit conversion from [Double](http://msdn2.microsoft.com/en-us/library/643eft0t) to **Gain**. |

## See Also

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

**[!:SIGENCEScenarioTool.Datatypes.DataTypeBase<System.Double>]**

# Gain Constructor

Initializes a new instance of the [Gain](#_C8F28179_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#_A0B0D309_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public Gain(  double value ) |

#### Parameters

value

Type: [System.Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

The value.

## See Also

[Gain Class](#_C8F28179_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# Gain.Gain Properties

The [Gain](#_C8F28179_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Value](#_B6D1F1CC_Topic) | Gets or sets the value. (Inherited from [DataTypeBase(T)](#_8D41A27D_Topic).) |

## See Also

[Gain Class](#_C8F28179_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# Gain.Gain Methods

The [Gain](#_C8F28179_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IsValid](#_2926BB18_Topic) | Returns true if ... is valid. (Overrides [DataTypeBase(T).IsValid()](#_9CC471E5_Topic).) |
| Public method | [ToString](#_795C09DE_Topic) | Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance. (Overrides [DataTypeBase(T).ToString()](#_8CEC4468_Topic).) |

## See Also

[Gain Class](#_C8F28179_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# Gain.IsValid Method

Returns true if ... is valid.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#_A0B0D309_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public override Nullable<bool> IsValid() |

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50))  
true if this instance is valid; otherwise, false.

## See Also

[Gain Class](#_C8F28179_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# Gain.ToString Method

Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#_A0B0D309_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public override string ToString() |

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)  
A [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance.

## See Also

[Gain Class](#_C8F28179_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# Gain.Gain Type Conversions

The [Gain](#_C8F28179_Topic) type exposes the following members.

## Operators

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public operatorStatic member | [Implicit(Double to Gain)](#_D6FE8E2E_Topic) | Performs an implicit conversion from [Double](http://msdn2.microsoft.com/en-us/library/643eft0t) to [Gain](#_C8F28179_Topic). |

## See Also

[Gain Class](#_C8F28179_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# Gain Implicit Conversion (Double to Gain)

Performs an implicit conversion from [Double](http://msdn2.microsoft.com/en-us/library/643eft0t) to [Gain](#_C8F28179_Topic).

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#_A0B0D309_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static implicit operator Gain (  double value ) |

#### Parameters

value

Type: [System.Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

The value.

#### Return Value

Type: [Gain](#_C8F28179_Topic)  
The result of the conversion.

## See Also

[Gain Class](#_C8F28179_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# SignalToNoiseRatio Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  [SIGENCEScenarioTool.Datatypes.DataTypeBase](#_8D41A27D_Topic)([Double](http://msdn2.microsoft.com/en-us/library/643eft0t))  
    SIGENCEScenarioTool.Datatypes.Physically.SignalToNoiseRatio

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#_A0B0D309_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public sealed class SignalToNoiseRatio : DataTypeBase<double> |

The **SignalToNoiseRatio** type exposes the following members.

## Constructors

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [SignalToNoiseRatio](#_F952EF78_Topic) | Initializes a new instance of the **SignalToNoiseRatio** class. |

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Value](#_B6D1F1CC_Topic) | Gets or sets the value. (Inherited from [DataTypeBase(T)](#_8D41A27D_Topic).) |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IsValid](#_DAD91D28_Topic) | Returns true if ... is valid. (Overrides [DataTypeBase(T).IsValid()](#_9CC471E5_Topic).) |
| Public method | [ToString](#_6DB9126E_Topic) | Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance. (Overrides [DataTypeBase(T).ToString()](#_8CEC4468_Topic).) |

## Operators

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public operatorStatic member | [Implicit(Double to SignalToNoiseRatio)](#_B6F1871D_Topic) | Performs an implicit conversion from [Double](http://msdn2.microsoft.com/en-us/library/643eft0t) to **SignalToNoiseRatio**. |

## See Also

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

**[!:SIGENCEScenarioTool.Datatypes.DataTypeBase<System.Double>]**

# SignalToNoiseRatio Constructor

Initializes a new instance of the [SignalToNoiseRatio](#_9D2108AA_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#_A0B0D309_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public SignalToNoiseRatio(  double value ) |

#### Parameters

value

Type: [System.Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

The value.

## See Also

[SignalToNoiseRatio Class](#_9D2108AA_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# SignalToNoiseRatio.SignalToNoiseRatio Properties

The [SignalToNoiseRatio](#_9D2108AA_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Value](#_B6D1F1CC_Topic) | Gets or sets the value. (Inherited from [DataTypeBase(T)](#_8D41A27D_Topic).) |

## See Also

[SignalToNoiseRatio Class](#_9D2108AA_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# SignalToNoiseRatio.SignalToNoiseRatio Methods

The [SignalToNoiseRatio](#_9D2108AA_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IsValid](#_DAD91D28_Topic) | Returns true if ... is valid. (Overrides [DataTypeBase(T).IsValid()](#_9CC471E5_Topic).) |
| Public method | [ToString](#_6DB9126E_Topic) | Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance. (Overrides [DataTypeBase(T).ToString()](#_8CEC4468_Topic).) |

## See Also

[SignalToNoiseRatio Class](#_9D2108AA_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# SignalToNoiseRatio.IsValid Method

Returns true if ... is valid.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#_A0B0D309_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public override Nullable<bool> IsValid() |

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50))  
true if this instance is valid; otherwise, false.

## See Also

[SignalToNoiseRatio Class](#_9D2108AA_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# SignalToNoiseRatio.ToString Method

Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#_A0B0D309_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public override string ToString() |

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)  
A [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance.

## See Also

[SignalToNoiseRatio Class](#_9D2108AA_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# SignalToNoiseRatio.SignalToNoiseRatio Type Conversions

The [SignalToNoiseRatio](#_9D2108AA_Topic) type exposes the following members.

## Operators

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public operatorStatic member | [Implicit(Double to SignalToNoiseRatio)](#_B6F1871D_Topic) | Performs an implicit conversion from [Double](http://msdn2.microsoft.com/en-us/library/643eft0t) to [SignalToNoiseRatio](#_9D2108AA_Topic). |

## See Also

[SignalToNoiseRatio Class](#_9D2108AA_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# SignalToNoiseRatio Implicit Conversion (Double to SignalToNoiseRatio)

Performs an implicit conversion from [Double](http://msdn2.microsoft.com/en-us/library/643eft0t) to [SignalToNoiseRatio](#_9D2108AA_Topic).

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#_A0B0D309_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static implicit operator SignalToNoiseRatio (  double value ) |

#### Parameters

value

Type: [System.Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

The value.

#### Return Value

Type: [SignalToNoiseRatio](#_9D2108AA_Topic)  
The result of the conversion.

## See Also

[SignalToNoiseRatio Class](#_9D2108AA_Topic)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#_A0B0D309_Topic)

# SIGENCEScenarioTool.Datatypes.Standard Namespace

## Classes

|  |  |  |
| --- | --- | --- |
|  | Class | Description |
| Public class | [IntegerList](#_36F88CCE_Topic) |  |
| Public class | [StringList](#_996731DE_Topic) |  |

# IntegerList Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  [System.Collections.Generic.List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d))  
    SIGENCEScenarioTool.Datatypes.Standard.IntegerList

**Namespace:** [SIGENCEScenarioTool.Datatypes.Standard](#_9149643B_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public sealed class IntegerList : List<int> |

The **IntegerList** type exposes the following members.

## Constructors

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [IntegerList()](#_DDA636DB_Topic) | Initializes a new instance of the **IntegerList** class. |
| Public method | [IntegerList(IEnumerable(Int32))](#_35CCAD05_Topic) | Initializes a new instance of the **IntegerList** class. |
| Public method | [IntegerList(Int32)](#_AA67AD05_Topic) | Initializes a new instance of the **IntegerList** class. |

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Capacity](http://msdn2.microsoft.com/en-us/library/y52x03h2) | Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public property | [Count](http://msdn2.microsoft.com/en-us/library/27b47ht3) | Gets the number of elements contained in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public property | [Item](http://msdn2.microsoft.com/en-us/library/0ebtbkkc) | Gets or sets the element at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Add](http://msdn2.microsoft.com/en-us/library/3wcytfd1) | Adds an object to the end of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [AddRange](http://msdn2.microsoft.com/en-us/library/z883w3dc) | Adds the elements of the specified collection to the end of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [AsReadOnly](http://msdn2.microsoft.com/en-us/library/e78dcd75) | Returns a read-only [IList(T)](http://msdn2.microsoft.com/en-us/library/5y536ey6) wrapper for the current collection. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [BinarySearch(T)](http://msdn2.microsoft.com/en-us/library/w4e7fxsh) | Searches the entire sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the default comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [BinarySearch(T, IComparer(T))](http://msdn2.microsoft.com/en-us/library/ftfdbfx6) | Searches the entire sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the specified comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [BinarySearch(Int32, Int32, T, IComparer(T))](http://msdn2.microsoft.com/en-us/library/a1s5syxa) | Searches a range of elements in the sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the specified comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [Clear](http://msdn2.microsoft.com/en-us/library/dwb5h52a) | Removes all elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [Contains](http://msdn2.microsoft.com/en-us/library/bhkz42b3) | Determines whether an element is in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [ConvertAll(TOutput)](http://msdn2.microsoft.com/en-us/library/73fe8cwf) | Converts the elements in the current [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to another type, and returns a list containing the converted elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [CopyTo(T[])](http://msdn2.microsoft.com/en-us/library/t69dktcd) | Copies the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the beginning of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [CopyTo(T[], Int32)](http://msdn2.microsoft.com/en-us/library/4df7xky9) | Copies the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [CopyTo(Int32,T[], Int32, Int32)](http://msdn2.microsoft.com/en-us/library/3eb2b9x8) | Copies a range of elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [Exists](http://msdn2.microsoft.com/en-us/library/bfed8bca) | Determines whether the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) contains elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [Find](http://msdn2.microsoft.com/en-us/library/x0b5b5bc) | Searches for an element that matches the conditions defined by the specified predicate, and returns the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [FindAll](http://msdn2.microsoft.com/en-us/library/fh1w7y8z) | Retrieves all the elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [FindIndex(Predicate(T))](http://msdn2.microsoft.com/en-us/library/x1xzf2ca) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [FindIndex(Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/efasdh0s) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the specified index to the last element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [FindIndex(Int32, Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/7eb596wz) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that starts at the specified index and contains the specified number of elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [FindLast](http://msdn2.microsoft.com/en-us/library/5kthb929) | Searches for an element that matches the conditions defined by the specified predicate, and returns the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [FindLastIndex(Predicate(T))](http://msdn2.microsoft.com/en-us/library/xzs5503w) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [FindLastIndex(Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/0b9t5061) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the first element to the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [FindLastIndex(Int32, Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/860a771k) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that contains the specified number of elements and ends at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [ForEach](http://msdn2.microsoft.com/en-us/library/bwabdf9z) | Performs the specified action on each element of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [GetEnumerator](http://msdn2.microsoft.com/en-us/library/b0yss765) | Returns an enumerator that iterates through the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetRange](http://msdn2.microsoft.com/en-us/library/21k0e39c) | Creates a shallow copy of a range of elements in the source [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IndexOf(T)](http://msdn2.microsoft.com/en-us/library/e4w08k17) | Searches for the specified object and returns the zero-based index of the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [IndexOf(T, Int32)](http://msdn2.microsoft.com/en-us/library/s8t42k5w) | Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the specified index to the last element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [IndexOf(T, Int32, Int32)](http://msdn2.microsoft.com/en-us/library/dy8zse0c) | Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that starts at the specified index and contains the specified number of elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [Insert](http://msdn2.microsoft.com/en-us/library/sey5k5z4) | Inserts an element into the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [InsertRange](http://msdn2.microsoft.com/en-us/library/884ee1fz) | Inserts the elements of a collection into the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [LastIndexOf(T)](http://msdn2.microsoft.com/en-us/library/dsxfcba1) | Searches for the specified object and returns the zero-based index of the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [LastIndexOf(T, Int32)](http://msdn2.microsoft.com/en-us/library/s088xd6w) | Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the first element to the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [LastIndexOf(T, Int32, Int32)](http://msdn2.microsoft.com/en-us/library/haast0bw) | Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that contains the specified number of elements and ends at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [Remove](http://msdn2.microsoft.com/en-us/library/cd666k3e) | Removes the first occurrence of a specific object from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [RemoveAll](http://msdn2.microsoft.com/en-us/library/wdka673a) | Removes all the elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [RemoveAt](http://msdn2.microsoft.com/en-us/library/5cw9x18z) | Removes the element at the specified index of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [RemoveRange](http://msdn2.microsoft.com/en-us/library/y33yd2b5) | Removes a range of elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [Reverse()](http://msdn2.microsoft.com/en-us/library/b0axc2h2) | Reverses the order of the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [Reverse(Int32, Int32)](http://msdn2.microsoft.com/en-us/library/hf2ay11y) | Reverses the order of the elements in the specified range. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [Sort()](http://msdn2.microsoft.com/en-us/library/b0zbh7b6) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the default comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [Sort(IComparer(T))](http://msdn2.microsoft.com/en-us/library/234b841s) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [Sort(Comparison(T))](http://msdn2.microsoft.com/en-us/library/w56d4y5z) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified [Comparison(T)](http://msdn2.microsoft.com/en-us/library/tfakywbh). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [Sort(Int32, Int32, IComparer(T))](http://msdn2.microsoft.com/en-us/library/8ce6t5ad) | Sorts the elements in a range of elements in [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [ToArray](http://msdn2.microsoft.com/en-us/library/x303t819) | Copies the elements of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a new array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [TrimExcess](http://msdn2.microsoft.com/en-us/library/ms132207) | Sets the capacity to the actual number of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19), if that number is less than a threshold value. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [TrueForAll](http://msdn2.microsoft.com/en-us/library/kdxe4x4w) | Determines whether every element in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) matches the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |

## Operators

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public operatorStatic member | [Multiply](#_3AD2E5F4_Topic) | Implements the operator \*. |

## Extension Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public Extension Method | [SaveAsCsv(Int32)](#_E6A752FD_Topic) | Saves the list as CSV. (Defined by [ListExtension](#_CD56FF2D_Topic).) |

## See Also

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#_9149643B_Topic)

**[!:System.Collections.Generic.List<System.Int32>]**

# IntegerList Constructor

## Overload List

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [IntegerList()](#_DDA636DB_Topic) | Initializes a new instance of the [IntegerList](#_36F88CCE_Topic) class. |
| Public method | [IntegerList(IEnumerable(Int32))](#_35CCAD05_Topic) | Initializes a new instance of the [IntegerList](#_36F88CCE_Topic) class. |
| Public method | [IntegerList(Int32)](#_AA67AD05_Topic) | Initializes a new instance of the [IntegerList](#_36F88CCE_Topic) class. |

## See Also

[IntegerList Class](#_36F88CCE_Topic)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#_9149643B_Topic)

# IntegerList Constructor

Initializes a new instance of the [IntegerList](#_36F88CCE_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Standard](#_9149643B_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public IntegerList() |

## See Also

[IntegerList Class](#_36F88CCE_Topic)

[IntegerList Overload](#_340A3E03_Topic)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#_9149643B_Topic)

# IntegerList Constructor (IEnumerable(Int32))

Initializes a new instance of the [IntegerList](#_36F88CCE_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Standard](#_9149643B_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public IntegerList(  IEnumerable<int> collection ) |

#### Parameters

collection

Type: [System.Collections.Generic.IEnumerable](http://msdn2.microsoft.com/en-us/library/9eekhta0)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d))

Die Auflistung, deren Elemente in die neue Liste kopiert werden.

## See Also

[IntegerList Class](#_36F88CCE_Topic)

[IntegerList Overload](#_340A3E03_Topic)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#_9149643B_Topic)

# IntegerList Constructor (Int32)

Initializes a new instance of the [IntegerList](#_36F88CCE_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Standard](#_9149643B_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public IntegerList(  int iSize ) |

#### Parameters

iSize

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

Size of the i.

## See Also

[IntegerList Class](#_36F88CCE_Topic)

[IntegerList Overload](#_340A3E03_Topic)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#_9149643B_Topic)

# IntegerList.IntegerList Properties

The [IntegerList](#_36F88CCE_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Capacity](http://msdn2.microsoft.com/en-us/library/y52x03h2) | Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public property | [Count](http://msdn2.microsoft.com/en-us/library/27b47ht3) | Gets the number of elements contained in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public property | [Item](http://msdn2.microsoft.com/en-us/library/0ebtbkkc) | Gets or sets the element at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |

## See Also

[IntegerList Class](#_36F88CCE_Topic)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#_9149643B_Topic)

# IntegerList.IntegerList Methods

The [IntegerList](#_36F88CCE_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Add](http://msdn2.microsoft.com/en-us/library/3wcytfd1) | Adds an object to the end of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [AddRange](http://msdn2.microsoft.com/en-us/library/z883w3dc) | Adds the elements of the specified collection to the end of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [AsReadOnly](http://msdn2.microsoft.com/en-us/library/e78dcd75) | Returns a read-only [IList(T)](http://msdn2.microsoft.com/en-us/library/5y536ey6) wrapper for the current collection. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [BinarySearch(T)](http://msdn2.microsoft.com/en-us/library/w4e7fxsh) | Searches the entire sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the default comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [BinarySearch(T, IComparer(T))](http://msdn2.microsoft.com/en-us/library/ftfdbfx6) | Searches the entire sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the specified comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [BinarySearch(Int32, Int32, T, IComparer(T))](http://msdn2.microsoft.com/en-us/library/a1s5syxa) | Searches a range of elements in the sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the specified comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [Clear](http://msdn2.microsoft.com/en-us/library/dwb5h52a) | Removes all elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [Contains](http://msdn2.microsoft.com/en-us/library/bhkz42b3) | Determines whether an element is in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [ConvertAll(TOutput)](http://msdn2.microsoft.com/en-us/library/73fe8cwf) | Converts the elements in the current [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to another type, and returns a list containing the converted elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [CopyTo(T[])](http://msdn2.microsoft.com/en-us/library/t69dktcd) | Copies the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the beginning of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [CopyTo(T[], Int32)](http://msdn2.microsoft.com/en-us/library/4df7xky9) | Copies the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [CopyTo(Int32,T[], Int32, Int32)](http://msdn2.microsoft.com/en-us/library/3eb2b9x8) | Copies a range of elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [Exists](http://msdn2.microsoft.com/en-us/library/bfed8bca) | Determines whether the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) contains elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [Find](http://msdn2.microsoft.com/en-us/library/x0b5b5bc) | Searches for an element that matches the conditions defined by the specified predicate, and returns the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [FindAll](http://msdn2.microsoft.com/en-us/library/fh1w7y8z) | Retrieves all the elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [FindIndex(Predicate(T))](http://msdn2.microsoft.com/en-us/library/x1xzf2ca) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [FindIndex(Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/efasdh0s) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the specified index to the last element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [FindIndex(Int32, Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/7eb596wz) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that starts at the specified index and contains the specified number of elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [FindLast](http://msdn2.microsoft.com/en-us/library/5kthb929) | Searches for an element that matches the conditions defined by the specified predicate, and returns the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [FindLastIndex(Predicate(T))](http://msdn2.microsoft.com/en-us/library/xzs5503w) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [FindLastIndex(Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/0b9t5061) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the first element to the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [FindLastIndex(Int32, Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/860a771k) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that contains the specified number of elements and ends at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [ForEach](http://msdn2.microsoft.com/en-us/library/bwabdf9z) | Performs the specified action on each element of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [GetEnumerator](http://msdn2.microsoft.com/en-us/library/b0yss765) | Returns an enumerator that iterates through the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetRange](http://msdn2.microsoft.com/en-us/library/21k0e39c) | Creates a shallow copy of a range of elements in the source [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IndexOf(T)](http://msdn2.microsoft.com/en-us/library/e4w08k17) | Searches for the specified object and returns the zero-based index of the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [IndexOf(T, Int32)](http://msdn2.microsoft.com/en-us/library/s8t42k5w) | Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the specified index to the last element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [IndexOf(T, Int32, Int32)](http://msdn2.microsoft.com/en-us/library/dy8zse0c) | Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that starts at the specified index and contains the specified number of elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [Insert](http://msdn2.microsoft.com/en-us/library/sey5k5z4) | Inserts an element into the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [InsertRange](http://msdn2.microsoft.com/en-us/library/884ee1fz) | Inserts the elements of a collection into the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [LastIndexOf(T)](http://msdn2.microsoft.com/en-us/library/dsxfcba1) | Searches for the specified object and returns the zero-based index of the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [LastIndexOf(T, Int32)](http://msdn2.microsoft.com/en-us/library/s088xd6w) | Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the first element to the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [LastIndexOf(T, Int32, Int32)](http://msdn2.microsoft.com/en-us/library/haast0bw) | Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that contains the specified number of elements and ends at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [Remove](http://msdn2.microsoft.com/en-us/library/cd666k3e) | Removes the first occurrence of a specific object from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [RemoveAll](http://msdn2.microsoft.com/en-us/library/wdka673a) | Removes all the elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [RemoveAt](http://msdn2.microsoft.com/en-us/library/5cw9x18z) | Removes the element at the specified index of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [RemoveRange](http://msdn2.microsoft.com/en-us/library/y33yd2b5) | Removes a range of elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [Reverse()](http://msdn2.microsoft.com/en-us/library/b0axc2h2) | Reverses the order of the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [Reverse(Int32, Int32)](http://msdn2.microsoft.com/en-us/library/hf2ay11y) | Reverses the order of the elements in the specified range. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [Sort()](http://msdn2.microsoft.com/en-us/library/b0zbh7b6) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the default comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [Sort(IComparer(T))](http://msdn2.microsoft.com/en-us/library/234b841s) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [Sort(Comparison(T))](http://msdn2.microsoft.com/en-us/library/w56d4y5z) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified [Comparison(T)](http://msdn2.microsoft.com/en-us/library/tfakywbh). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [Sort(Int32, Int32, IComparer(T))](http://msdn2.microsoft.com/en-us/library/8ce6t5ad) | Sorts the elements in a range of elements in [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [ToArray](http://msdn2.microsoft.com/en-us/library/x303t819) | Copies the elements of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a new array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [TrimExcess](http://msdn2.microsoft.com/en-us/library/ms132207) | Sets the capacity to the actual number of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19), if that number is less than a threshold value. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |
| Public method | [TrueForAll](http://msdn2.microsoft.com/en-us/library/kdxe4x4w) | Determines whether every element in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) matches the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)).) |

## Extension Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public Extension Method | [SaveAsCsv(Int32)](#_E6A752FD_Topic) | Saves the list as CSV. (Defined by [ListExtension](#_CD56FF2D_Topic).) |

## See Also

[IntegerList Class](#_36F88CCE_Topic)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#_9149643B_Topic)

# IntegerList.IntegerList Operators

The [IntegerList](#_36F88CCE_Topic) type exposes the following members.

## Operators

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public operatorStatic member | [Multiply](#_3AD2E5F4_Topic) | Implements the operator \*. |

## See Also

[IntegerList Class](#_36F88CCE_Topic)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#_9149643B_Topic)

# IntegerList.Multiply Operator

Implements the operator \*.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Standard](#_9149643B_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static IntegerList operator \*(  IntegerList ilSource,  int iMultiplier ) |

#### Parameters

ilSource

Type: [SIGENCEScenarioTool.Datatypes.Standard.IntegerList](#_36F88CCE_Topic)

The il source.

iMultiplier

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

The i multiplier.

#### Return Value

Type: [IntegerList](#_36F88CCE_Topic)  
The result of the operator.

## See Also

[IntegerList Class](#_36F88CCE_Topic)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#_9149643B_Topic)

# StringList Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  [System.Collections.Generic.List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf))  
    SIGENCEScenarioTool.Datatypes.Standard.StringList

**Namespace:** [SIGENCEScenarioTool.Datatypes.Standard](#_9149643B_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public sealed class StringList : List<string> |

The **StringList** type exposes the following members.

## Constructors

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [StringList()](#_D81053D2_Topic) | Initializes a new instance of the **StringList** class. |
| Public method | [StringList(IEnumerable(String))](#_93B4E735_Topic) | Initializes a new instance of the **StringList** class. |
| Public method | [StringList(Int32)](#_7BAB4506_Topic) | Initializes a new instance of the **StringList** class. |
| Public method | [StringList(String[])](#_D903D06B_Topic) | Initializes a new instance of the **StringList** class. |

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Capacity](http://msdn2.microsoft.com/en-us/library/y52x03h2) | Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public property | [Count](http://msdn2.microsoft.com/en-us/library/27b47ht3) | Gets the number of elements contained in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public property | [Item](http://msdn2.microsoft.com/en-us/library/0ebtbkkc) | Gets or sets the element at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Add](http://msdn2.microsoft.com/en-us/library/3wcytfd1) | Adds an object to the end of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [AddRange](http://msdn2.microsoft.com/en-us/library/z883w3dc) | Adds the elements of the specified collection to the end of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [AsReadOnly](http://msdn2.microsoft.com/en-us/library/e78dcd75) | Returns a read-only [IList(T)](http://msdn2.microsoft.com/en-us/library/5y536ey6) wrapper for the current collection. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [BinarySearch(T)](http://msdn2.microsoft.com/en-us/library/w4e7fxsh) | Searches the entire sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the default comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [BinarySearch(T, IComparer(T))](http://msdn2.microsoft.com/en-us/library/ftfdbfx6) | Searches the entire sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the specified comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [BinarySearch(Int32, Int32, T, IComparer(T))](http://msdn2.microsoft.com/en-us/library/a1s5syxa) | Searches a range of elements in the sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the specified comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Clear](http://msdn2.microsoft.com/en-us/library/dwb5h52a) | Removes all elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Contains](http://msdn2.microsoft.com/en-us/library/bhkz42b3) | Determines whether an element is in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [ConvertAll(TOutput)](http://msdn2.microsoft.com/en-us/library/73fe8cwf) | Converts the elements in the current [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to another type, and returns a list containing the converted elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [CopyTo(T[])](http://msdn2.microsoft.com/en-us/library/t69dktcd) | Copies the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the beginning of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [CopyTo(T[], Int32)](http://msdn2.microsoft.com/en-us/library/4df7xky9) | Copies the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [CopyTo(Int32,T[], Int32, Int32)](http://msdn2.microsoft.com/en-us/library/3eb2b9x8) | Copies a range of elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [Exists](http://msdn2.microsoft.com/en-us/library/bfed8bca) | Determines whether the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) contains elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Find](http://msdn2.microsoft.com/en-us/library/x0b5b5bc) | Searches for an element that matches the conditions defined by the specified predicate, and returns the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [FindAll](http://msdn2.microsoft.com/en-us/library/fh1w7y8z) | Retrieves all the elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [FindIndex(Predicate(T))](http://msdn2.microsoft.com/en-us/library/x1xzf2ca) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [FindIndex(Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/efasdh0s) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the specified index to the last element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [FindIndex(Int32, Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/7eb596wz) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that starts at the specified index and contains the specified number of elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [FindLast](http://msdn2.microsoft.com/en-us/library/5kthb929) | Searches for an element that matches the conditions defined by the specified predicate, and returns the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [FindLastIndex(Predicate(T))](http://msdn2.microsoft.com/en-us/library/xzs5503w) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [FindLastIndex(Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/0b9t5061) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the first element to the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [FindLastIndex(Int32, Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/860a771k) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that contains the specified number of elements and ends at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [ForEach](http://msdn2.microsoft.com/en-us/library/bwabdf9z) | Performs the specified action on each element of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [GetEnumerator](http://msdn2.microsoft.com/en-us/library/b0yss765) | Returns an enumerator that iterates through the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetRange](http://msdn2.microsoft.com/en-us/library/21k0e39c) | Creates a shallow copy of a range of elements in the source [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IndexOf(T)](http://msdn2.microsoft.com/en-us/library/e4w08k17) | Searches for the specified object and returns the zero-based index of the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [IndexOf(T, Int32)](http://msdn2.microsoft.com/en-us/library/s8t42k5w) | Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the specified index to the last element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [IndexOf(T, Int32, Int32)](http://msdn2.microsoft.com/en-us/library/dy8zse0c) | Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that starts at the specified index and contains the specified number of elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Insert](http://msdn2.microsoft.com/en-us/library/sey5k5z4) | Inserts an element into the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [InsertRange](http://msdn2.microsoft.com/en-us/library/884ee1fz) | Inserts the elements of a collection into the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [LastIndexOf(T)](http://msdn2.microsoft.com/en-us/library/dsxfcba1) | Searches for the specified object and returns the zero-based index of the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [LastIndexOf(T, Int32)](http://msdn2.microsoft.com/en-us/library/s088xd6w) | Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the first element to the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [LastIndexOf(T, Int32, Int32)](http://msdn2.microsoft.com/en-us/library/haast0bw) | Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that contains the specified number of elements and ends at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Remove](http://msdn2.microsoft.com/en-us/library/cd666k3e) | Removes the first occurrence of a specific object from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [RemoveAll](http://msdn2.microsoft.com/en-us/library/wdka673a) | Removes all the elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [RemoveAt](http://msdn2.microsoft.com/en-us/library/5cw9x18z) | Removes the element at the specified index of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [RemoveRange](http://msdn2.microsoft.com/en-us/library/y33yd2b5) | Removes a range of elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Reverse()](http://msdn2.microsoft.com/en-us/library/b0axc2h2) | Reverses the order of the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Reverse(Int32, Int32)](http://msdn2.microsoft.com/en-us/library/hf2ay11y) | Reverses the order of the elements in the specified range. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Sort()](http://msdn2.microsoft.com/en-us/library/b0zbh7b6) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the default comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Sort(IComparer(T))](http://msdn2.microsoft.com/en-us/library/234b841s) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Sort(Comparison(T))](http://msdn2.microsoft.com/en-us/library/w56d4y5z) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified [Comparison(T)](http://msdn2.microsoft.com/en-us/library/tfakywbh). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Sort(Int32, Int32, IComparer(T))](http://msdn2.microsoft.com/en-us/library/8ce6t5ad) | Sorts the elements in a range of elements in [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [ToArray](http://msdn2.microsoft.com/en-us/library/x303t819) | Copies the elements of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a new array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [TrimExcess](http://msdn2.microsoft.com/en-us/library/ms132207) | Sets the capacity to the actual number of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19), if that number is less than a threshold value. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [TrueForAll](http://msdn2.microsoft.com/en-us/library/kdxe4x4w) | Determines whether every element in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) matches the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |

## Operators

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public operatorStatic member | [Implicit(StringList toString[])](#_5C583BBA_Topic) | Performs an implicit conversion from **StringList** to **[!:System.String[]]**. |

## Extension Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public Extension Method | [SaveAsCsv(String)](#_E6A752FD_Topic) | Saves the list as CSV. (Defined by [ListExtension](#_CD56FF2D_Topic).) |

## See Also

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#_9149643B_Topic)

**[!:System.Collections.Generic.List<System.String>]**

# StringList Constructor

## Overload List

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [StringList()](#_D81053D2_Topic) | Initializes a new instance of the [StringList](#_996731DE_Topic) class. |
| Public method | [StringList(IEnumerable(String))](#_93B4E735_Topic) | Initializes a new instance of the [StringList](#_996731DE_Topic) class. |
| Public method | [StringList(Int32)](#_7BAB4506_Topic) | Initializes a new instance of the [StringList](#_996731DE_Topic) class. |
| Public method | [StringList(String[])](#_D903D06B_Topic) | Initializes a new instance of the [StringList](#_996731DE_Topic) class. |

## See Also

[StringList Class](#_996731DE_Topic)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#_9149643B_Topic)

# StringList Constructor

Initializes a new instance of the [StringList](#_996731DE_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Standard](#_9149643B_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public StringList() |

## See Also

[StringList Class](#_996731DE_Topic)

[StringList Overload](#_72F128C2_Topic)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#_9149643B_Topic)

# StringList Constructor (IEnumerable(String))

Initializes a new instance of the [StringList](#_996731DE_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Standard](#_9149643B_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public StringList(  IEnumerable<string> collection ) |

#### Parameters

collection

Type: [System.Collections.Generic.IEnumerable](http://msdn2.microsoft.com/en-us/library/9eekhta0)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf))

Die Auflistung, deren Elemente in die neue Liste kopiert werden.

## See Also

[StringList Class](#_996731DE_Topic)

[StringList Overload](#_72F128C2_Topic)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#_9149643B_Topic)

# StringList Constructor (Int32)

Initializes a new instance of the [StringList](#_996731DE_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Standard](#_9149643B_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public StringList(  int iSize ) |

#### Parameters

iSize

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

Size of the i.

## See Also

[StringList Class](#_996731DE_Topic)

[StringList Overload](#_72F128C2_Topic)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#_9149643B_Topic)

# StringList Constructor (String[])

Initializes a new instance of the [StringList](#_996731DE_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Standard](#_9149643B_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public StringList(  string[] strArray ) |

#### Parameters

strArray

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)[]

The string array.

## See Also

[StringList Class](#_996731DE_Topic)

[StringList Overload](#_72F128C2_Topic)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#_9149643B_Topic)

# StringList.StringList Properties

The [StringList](#_996731DE_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Capacity](http://msdn2.microsoft.com/en-us/library/y52x03h2) | Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public property | [Count](http://msdn2.microsoft.com/en-us/library/27b47ht3) | Gets the number of elements contained in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public property | [Item](http://msdn2.microsoft.com/en-us/library/0ebtbkkc) | Gets or sets the element at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |

## See Also

[StringList Class](#_996731DE_Topic)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#_9149643B_Topic)

# StringList.StringList Methods

The [StringList](#_996731DE_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Add](http://msdn2.microsoft.com/en-us/library/3wcytfd1) | Adds an object to the end of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [AddRange](http://msdn2.microsoft.com/en-us/library/z883w3dc) | Adds the elements of the specified collection to the end of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [AsReadOnly](http://msdn2.microsoft.com/en-us/library/e78dcd75) | Returns a read-only [IList(T)](http://msdn2.microsoft.com/en-us/library/5y536ey6) wrapper for the current collection. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [BinarySearch(T)](http://msdn2.microsoft.com/en-us/library/w4e7fxsh) | Searches the entire sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the default comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [BinarySearch(T, IComparer(T))](http://msdn2.microsoft.com/en-us/library/ftfdbfx6) | Searches the entire sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the specified comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [BinarySearch(Int32, Int32, T, IComparer(T))](http://msdn2.microsoft.com/en-us/library/a1s5syxa) | Searches a range of elements in the sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the specified comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Clear](http://msdn2.microsoft.com/en-us/library/dwb5h52a) | Removes all elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Contains](http://msdn2.microsoft.com/en-us/library/bhkz42b3) | Determines whether an element is in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [ConvertAll(TOutput)](http://msdn2.microsoft.com/en-us/library/73fe8cwf) | Converts the elements in the current [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to another type, and returns a list containing the converted elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [CopyTo(T[])](http://msdn2.microsoft.com/en-us/library/t69dktcd) | Copies the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the beginning of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [CopyTo(T[], Int32)](http://msdn2.microsoft.com/en-us/library/4df7xky9) | Copies the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [CopyTo(Int32,T[], Int32, Int32)](http://msdn2.microsoft.com/en-us/library/3eb2b9x8) | Copies a range of elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [Exists](http://msdn2.microsoft.com/en-us/library/bfed8bca) | Determines whether the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) contains elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Find](http://msdn2.microsoft.com/en-us/library/x0b5b5bc) | Searches for an element that matches the conditions defined by the specified predicate, and returns the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [FindAll](http://msdn2.microsoft.com/en-us/library/fh1w7y8z) | Retrieves all the elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [FindIndex(Predicate(T))](http://msdn2.microsoft.com/en-us/library/x1xzf2ca) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [FindIndex(Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/efasdh0s) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the specified index to the last element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [FindIndex(Int32, Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/7eb596wz) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that starts at the specified index and contains the specified number of elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [FindLast](http://msdn2.microsoft.com/en-us/library/5kthb929) | Searches for an element that matches the conditions defined by the specified predicate, and returns the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [FindLastIndex(Predicate(T))](http://msdn2.microsoft.com/en-us/library/xzs5503w) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [FindLastIndex(Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/0b9t5061) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the first element to the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [FindLastIndex(Int32, Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/860a771k) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that contains the specified number of elements and ends at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [ForEach](http://msdn2.microsoft.com/en-us/library/bwabdf9z) | Performs the specified action on each element of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [GetEnumerator](http://msdn2.microsoft.com/en-us/library/b0yss765) | Returns an enumerator that iterates through the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetRange](http://msdn2.microsoft.com/en-us/library/21k0e39c) | Creates a shallow copy of a range of elements in the source [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IndexOf(T)](http://msdn2.microsoft.com/en-us/library/e4w08k17) | Searches for the specified object and returns the zero-based index of the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [IndexOf(T, Int32)](http://msdn2.microsoft.com/en-us/library/s8t42k5w) | Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the specified index to the last element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [IndexOf(T, Int32, Int32)](http://msdn2.microsoft.com/en-us/library/dy8zse0c) | Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that starts at the specified index and contains the specified number of elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Insert](http://msdn2.microsoft.com/en-us/library/sey5k5z4) | Inserts an element into the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [InsertRange](http://msdn2.microsoft.com/en-us/library/884ee1fz) | Inserts the elements of a collection into the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [LastIndexOf(T)](http://msdn2.microsoft.com/en-us/library/dsxfcba1) | Searches for the specified object and returns the zero-based index of the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [LastIndexOf(T, Int32)](http://msdn2.microsoft.com/en-us/library/s088xd6w) | Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the first element to the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [LastIndexOf(T, Int32, Int32)](http://msdn2.microsoft.com/en-us/library/haast0bw) | Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that contains the specified number of elements and ends at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Remove](http://msdn2.microsoft.com/en-us/library/cd666k3e) | Removes the first occurrence of a specific object from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [RemoveAll](http://msdn2.microsoft.com/en-us/library/wdka673a) | Removes all the elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [RemoveAt](http://msdn2.microsoft.com/en-us/library/5cw9x18z) | Removes the element at the specified index of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [RemoveRange](http://msdn2.microsoft.com/en-us/library/y33yd2b5) | Removes a range of elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Reverse()](http://msdn2.microsoft.com/en-us/library/b0axc2h2) | Reverses the order of the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Reverse(Int32, Int32)](http://msdn2.microsoft.com/en-us/library/hf2ay11y) | Reverses the order of the elements in the specified range. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Sort()](http://msdn2.microsoft.com/en-us/library/b0zbh7b6) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the default comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Sort(IComparer(T))](http://msdn2.microsoft.com/en-us/library/234b841s) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Sort(Comparison(T))](http://msdn2.microsoft.com/en-us/library/w56d4y5z) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified [Comparison(T)](http://msdn2.microsoft.com/en-us/library/tfakywbh). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [Sort(Int32, Int32, IComparer(T))](http://msdn2.microsoft.com/en-us/library/8ce6t5ad) | Sorts the elements in a range of elements in [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [ToArray](http://msdn2.microsoft.com/en-us/library/x303t819) | Copies the elements of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a new array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [TrimExcess](http://msdn2.microsoft.com/en-us/library/ms132207) | Sets the capacity to the actual number of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19), if that number is less than a threshold value. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |
| Public method | [TrueForAll](http://msdn2.microsoft.com/en-us/library/kdxe4x4w) | Determines whether every element in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) matches the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)).) |

## Extension Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public Extension Method | [SaveAsCsv(String)](#_E6A752FD_Topic) | Saves the list as CSV. (Defined by [ListExtension](#_CD56FF2D_Topic).) |

## See Also

[StringList Class](#_996731DE_Topic)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#_9149643B_Topic)

# StringList.StringList Type Conversions

The [StringList](#_996731DE_Topic) type exposes the following members.

## Operators

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public operatorStatic member | [Implicit(StringList toString[])](#_5C583BBA_Topic) | Performs an implicit conversion from [StringList](#_996731DE_Topic) to **[!:System.String[]]**. |

## See Also

[StringList Class](#_996731DE_Topic)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#_9149643B_Topic)

# StringList Implicit Conversion (StringList to String[])

Performs an implicit conversion from [StringList](#_996731DE_Topic) to **[!:System.String[]]**.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Standard](#_9149643B_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static implicit operator string[] (  StringList sl ) |

#### Parameters

sl

Type: [SIGENCEScenarioTool.Datatypes.Standard.StringList](#_996731DE_Topic)

The sl.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)[]  
The result of the conversion.

## See Also

[StringList Class](#_996731DE_Topic)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#_9149643B_Topic)

# SIGENCEScenarioTool.Extensions Namespace

## Classes

|  |  |  |
| --- | --- | --- |
|  | Class | Description |
| Public class | [ColorExtension](#_820DCDAD_Topic) |  |
| Public class | [DateTimeExtension](#_DBCCAB85_Topic) |  |
| Public class | [DbCommandExtension](#_FE5748BB_Topic) |  |
| Public class | [DictionaryExtension](#_ACA67834_Topic) | Eine Erweiterungsklasse für Dictionary <TKey , TValue> und SortedDictionary<TKey , TValue> . |
| Public class | [FileInfoExtension](#_5CAC1596_Topic) | Eine Erweiterungsklasse für System.IO.FileInfo . |
| Public class | [IDataReaderExtension](#_AB74F295_Topic) |  |
| Public class | [IDbConnectionExtension](#_75D110BD_Topic) |  |
| Public class | [ListExtension](#_CD56FF2D_Topic) |  |
| Public class | [RandomExtension](#_D406B8FD_Topic) | Eine Erweiterungsklasse für System.Random . |
| Public class | [SQLiteExtension](#_D75A4EF2_Topic) |  |
| Public class | [StringBuilderExtension](#_2DC53BAA_Topic) |  |
| Public class | [StringExtension](#_C8D711A9_Topic) | Eine Erweiterungsklasse für unseren lieblichen String. |
| Public class | [TimeSpanExtension](#_2C8B03E2_Topic) |  |
| Public class | [TypeExtension](#_9A730ED4_Topic) |  |
| Public class | [XElementExtension](#_69AF9305_Topic) |  |

# ColorExtension Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Extensions.ColorExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static class ColorExtension |

The **ColorExtension** type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [WithAlpha](#_223BA59B_Topic) | Returns The Color With Changed Alpha Value. |

## See Also

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# ColorExtension.ColorExtension Methods

The [ColorExtension](#_820DCDAD_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [WithAlpha](#_223BA59B_Topic) | Returns The Color With Changed Alpha Value. |

## See Also

[ColorExtension Class](#_820DCDAD_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# ColorExtension.WithAlpha Method

Returns The Color With Changed Alpha Value.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Color WithAlpha(  this Color color,  byte bAlpha ) |

#### Parameters

color

Type: [System.Windows.Media.Color](http://msdn2.microsoft.com/en-us/library/ms653055)

bAlpha

Type: [System.Byte](http://msdn2.microsoft.com/en-us/library/yyb1w04y)

#### Return Value

Type: [Color](http://msdn2.microsoft.com/en-us/library/ms653055)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Color](http://msdn2.microsoft.com/en-us/library/ms653055). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[ColorExtension Class](#_820DCDAD_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# DateTimeExtension Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Extensions.DateTimeExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static class DateTimeExtension |

The **DateTimeExtension** type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [DaysInMonth](#_8388B0DB_Topic) | Dayses the in month. |
| Public methodStatic member | [Fmt\_DD\_MM\_YYYY](#_A88742C5_Topic) | dd.MM.yyyy |
| Public methodStatic member | [Fmt\_DD\_MM\_YYYY\_HH\_MM](#_57ABB89C_Topic) |  |
| Public methodStatic member | [Fmt\_DD\_MM\_YYYY\_HH\_MM\_SS](#_3F4326F8_Topic) | dd.MM.yyyy, HH:mm:ss |
| Public methodStatic member | [Fmt\_HH\_MM\_SS](#_3A5D4222_Topic) | HH:mm:ss |
| Public methodStatic member | [Fmt\_YYYYMMDD](#_A5ACE5B8_Topic) | yyyyMMdd |
| Public methodStatic member | [Fmt\_YYYYMMDD\_HHMMSS](#_DF84552A_Topic) | yyyyMMdd\_HHmmss |
| Public methodStatic member | [Fmt\_YYYYMMDD\_HHMMSSFFF](#_8B4F4880_Topic) | yyyyMMdd\_HHmmssfff |
| Public methodStatic member | [Fmt\_YYYYMMDDHHMMSS](#_6A01552A_Topic) | yyyyMMddHHmmss |

## See Also

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# DateTimeExtension.DateTimeExtension Methods

The [DateTimeExtension](#_DBCCAB85_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [DaysInMonth](#_8388B0DB_Topic) | Dayses the in month. |
| Public methodStatic member | [Fmt\_DD\_MM\_YYYY](#_A88742C5_Topic) | dd.MM.yyyy |
| Public methodStatic member | [Fmt\_DD\_MM\_YYYY\_HH\_MM](#_57ABB89C_Topic) |  |
| Public methodStatic member | [Fmt\_DD\_MM\_YYYY\_HH\_MM\_SS](#_3F4326F8_Topic) | dd.MM.yyyy, HH:mm:ss |
| Public methodStatic member | [Fmt\_HH\_MM\_SS](#_3A5D4222_Topic) | HH:mm:ss |
| Public methodStatic member | [Fmt\_YYYYMMDD](#_A5ACE5B8_Topic) | yyyyMMdd |
| Public methodStatic member | [Fmt\_YYYYMMDD\_HHMMSS](#_DF84552A_Topic) | yyyyMMdd\_HHmmss |
| Public methodStatic member | [Fmt\_YYYYMMDD\_HHMMSSFFF](#_8B4F4880_Topic) | yyyyMMdd\_HHmmssfff |
| Public methodStatic member | [Fmt\_YYYYMMDDHHMMSS](#_6A01552A_Topic) | yyyyMMddHHmmss |

## See Also

[DateTimeExtension Class](#_DBCCAB85_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# DateTimeExtension.DaysInMonth Method

Dayses the in month.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static int DaysInMonth(  this DateTime dt ) |

#### Parameters

dt

Type: [System.DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y)

The dt.

#### Return Value

Type: [Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[DateTimeExtension Class](#_DBCCAB85_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# DateTimeExtension.Fmt\_DD\_MM\_YYYY Method

dd.MM.yyyy

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string Fmt\_DD\_MM\_YYYY(  this DateTime dt ) |

#### Parameters

dt

Type: [System.DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y)

The dt.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[DateTimeExtension Class](#_DBCCAB85_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# DateTimeExtension.Fmt\_DD\_MM\_YYYY\_HH\_MM Method

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string Fmt\_DD\_MM\_YYYY\_HH\_MM(  this DateTime dt ) |

#### Parameters

dt

Type: [System.DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y)

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[DateTimeExtension Class](#_DBCCAB85_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# DateTimeExtension.Fmt\_DD\_MM\_YYYY\_HH\_MM\_SS Method

dd.MM.yyyy, HH:mm:ss

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string Fmt\_DD\_MM\_YYYY\_HH\_MM\_SS(  this DateTime dt ) |

#### Parameters

dt

Type: [System.DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y)

The dt.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[DateTimeExtension Class](#_DBCCAB85_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# DateTimeExtension.Fmt\_HH\_MM\_SS Method

HH:mm:ss

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string Fmt\_HH\_MM\_SS(  this DateTime dt ) |

#### Parameters

dt

Type: [System.DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y)

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[DateTimeExtension Class](#_DBCCAB85_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# DateTimeExtension.Fmt\_YYYYMMDD Method

yyyyMMdd

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string Fmt\_YYYYMMDD(  this DateTime dt ) |

#### Parameters

dt

Type: [System.DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y)

The dt.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[DateTimeExtension Class](#_DBCCAB85_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# DateTimeExtension.Fmt\_YYYYMMDD\_HHMMSS Method

yyyyMMdd\_HHmmss

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string Fmt\_YYYYMMDD\_HHMMSS(  this DateTime dt ) |

#### Parameters

dt

Type: [System.DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y)

The dt.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[DateTimeExtension Class](#_DBCCAB85_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# DateTimeExtension.Fmt\_YYYYMMDD\_HHMMSSFFF Method

yyyyMMdd\_HHmmssfff

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string Fmt\_YYYYMMDD\_HHMMSSFFF(  this DateTime dt ) |

#### Parameters

dt

Type: [System.DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y)

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[DateTimeExtension Class](#_DBCCAB85_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# DateTimeExtension.Fmt\_YYYYMMDDHHMMSS Method

yyyyMMddHHmmss

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string Fmt\_YYYYMMDDHHMMSS(  this DateTime dt ) |

#### Parameters

dt

Type: [System.DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y)

The dt.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[DateTimeExtension Class](#_DBCCAB85_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# DbCommandExtension Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Extensions.DbCommandExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static class DbCommandExtension |

The **DbCommandExtension** type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [ResetParameters](#_2476C3A5_Topic) | Set alle Parameters to NULL. |
| Public methodStatic member | [SetNullableParamter(DbCommand, Int32, Object)](#_D0EF6560_Topic) | Sets the nullable paramter. |
| Public methodStatic member | [SetNullableParamter(DbCommand, String, Object)](#_42DD6165_Topic) | Adds the nullable paramter. |

## See Also

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# DbCommandExtension.DbCommandExtension Methods

The [DbCommandExtension](#_FE5748BB_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [ResetParameters](#_2476C3A5_Topic) | Set alle Parameters to NULL. |
| Public methodStatic member | [SetNullableParamter(DbCommand, Int32, Object)](#_D0EF6560_Topic) | Sets the nullable paramter. |
| Public methodStatic member | [SetNullableParamter(DbCommand, String, Object)](#_42DD6165_Topic) | Adds the nullable paramter. |

## See Also

[DbCommandExtension Class](#_FE5748BB_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# DbCommandExtension.ResetParameters Method

Set alle Parameters to NULL.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void ResetParameters(  this DbCommand dbCommand ) |

#### Parameters

dbCommand

Type: [System.Data.Common.DbCommand](http://msdn2.microsoft.com/en-us/library/852d01k6)

The database command.

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [DbCommand](http://msdn2.microsoft.com/en-us/library/852d01k6). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[DbCommandExtension Class](#_FE5748BB_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# DbCommandExtension.SetNullableParamter Method

## Overload List

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [SetNullableParamter(DbCommand, Int32, Object)](#_D0EF6560_Topic) | Sets the nullable paramter. |
| Public methodStatic member | [SetNullableParamter(DbCommand, String, Object)](#_42DD6165_Topic) | Adds the nullable paramter. |

## See Also

[DbCommandExtension Class](#_FE5748BB_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# DbCommandExtension.SetNullableParamter Method (DbCommand, Int32, Object)

Sets the nullable paramter.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void SetNullableParamter(  this DbCommand dbCommand,  int iParameterIndex,  Object o ) |

#### Parameters

dbCommand

Type: [System.Data.Common.DbCommand](http://msdn2.microsoft.com/en-us/library/852d01k6)

The database command.

iParameterIndex

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

Index of the i parameter.

o

Type: [System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)

The o.

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [DbCommand](http://msdn2.microsoft.com/en-us/library/852d01k6). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[DbCommandExtension Class](#_FE5748BB_Topic)

[SetNullableParamter Overload](#_399114F8_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# DbCommandExtension.SetNullableParamter Method (DbCommand, String, Object)

Adds the nullable paramter.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void SetNullableParamter(  this DbCommand dbCommand,  string strParameterName,  Object o ) |

#### Parameters

dbCommand

Type: [System.Data.Common.DbCommand](http://msdn2.microsoft.com/en-us/library/852d01k6)

The database command.

strParameterName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string parameter.

o

Type: [System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)

The o.

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [DbCommand](http://msdn2.microsoft.com/en-us/library/852d01k6). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[DbCommandExtension Class](#_FE5748BB_Topic)

[SetNullableParamter Overload](#_399114F8_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# DictionaryExtension Class

Eine Erweiterungsklasse für Dictionary <TKey , TValue> und SortedDictionary<TKey , TValue> .

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Extensions.DictionaryExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static class DictionaryExtension |

The **DictionaryExtension** type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [ForEach(TKey, TValue)(Dictionary(TKey, TValue), Action(TKey, TValue))](#_B3F8CBA6_Topic) | Fors the each. |
| Public methodStatic member | [ForEach(TKey, TValue)(SortedDictionary(TKey, TValue), Action(TKey, TValue))](#_FD70B81E_Topic) | Fors the each. |
| Public methodStatic member | [ToString(TKey, TValue)](#_831E86CC_Topic) | Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance. |

## See Also

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# DictionaryExtension.DictionaryExtension Methods

The [DictionaryExtension](#_ACA67834_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [ForEach(TKey, TValue)(Dictionary(TKey, TValue), Action(TKey, TValue))](#_B3F8CBA6_Topic) | Fors the each. |
| Public methodStatic member | [ForEach(TKey, TValue)(SortedDictionary(TKey, TValue), Action(TKey, TValue))](#_FD70B81E_Topic) | Fors the each. |
| Public methodStatic member | [ToString(TKey, TValue)](#_831E86CC_Topic) | Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance. |

## See Also

[DictionaryExtension Class](#_ACA67834_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# DictionaryExtension.ForEach Method

## Overload List

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [ForEach(TKey, TValue)(Dictionary(TKey, TValue), Action(TKey, TValue))](#_B3F8CBA6_Topic) | Fors the each. |
| Public methodStatic member | [ForEach(TKey, TValue)(SortedDictionary(TKey, TValue), Action(TKey, TValue))](#_FD70B81E_Topic) | Fors the each. |

## See Also

[DictionaryExtension Class](#_ACA67834_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# DictionaryExtension.ForEach(TKey, TValue) Method (Dictionary(TKey, TValue), Action(TKey, TValue))

Fors the each.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void ForEach<TKey, TValue>(  this Dictionary<TKey, TValue> dict,  Action<TKey, TValue> action ) |

#### Parameters

dict

Type: [System.Collections.Generic.Dictionary](http://msdn2.microsoft.com/en-us/library/xfhwa508)(**TKey**, **TValue**)

The dict.

action

Type: [System.Action](http://msdn2.microsoft.com/en-us/library/bb549311)(**TKey**, **TValue**)

The action.

#### Type Parameters

TKey

The type of the key.

TValue

The type of the value.

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Dictionary](http://msdn2.microsoft.com/en-us/library/xfhwa508)(**TKey**, **TValue**). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[DictionaryExtension Class](#_ACA67834_Topic)

[ForEach Overload](#_3B69EEF5_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# DictionaryExtension.ForEach(TKey, TValue) Method (SortedDictionary(TKey, TValue), Action(TKey, TValue))

Fors the each.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void ForEach<TKey, TValue>(  this SortedDictionary<TKey, TValue> dict,  Action<TKey, TValue> action ) |

#### Parameters

dict

Type: [System.Collections.Generic.SortedDictionary](http://msdn2.microsoft.com/en-us/library/f7fta44c)(**TKey**, **TValue**)

The dict.

action

Type: [System.Action](http://msdn2.microsoft.com/en-us/library/bb549311)(**TKey**, **TValue**)

The action.

#### Type Parameters

TKey

The type of the key.

TValue

The type of the value.

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [SortedDictionary](http://msdn2.microsoft.com/en-us/library/f7fta44c)(**TKey**, **TValue**). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[DictionaryExtension Class](#_ACA67834_Topic)

[ForEach Overload](#_3B69EEF5_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# DictionaryExtension.ToString(TKey, TValue) Method

Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string ToString<TKey, TValue>(  this SortedDictionary<TKey, TValue> dict,  char cDivider ) |

#### Parameters

dict

Type: [System.Collections.Generic.SortedDictionary](http://msdn2.microsoft.com/en-us/library/f7fta44c)(**TKey**, **TValue**)

The dictionary.

cDivider

Type: [System.Char](http://msdn2.microsoft.com/en-us/library/k493b04s)

The c divider.

#### Type Parameters

TKey

The type of the key.

TValue

The type of the value.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)  
A [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance.

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [SortedDictionary](http://msdn2.microsoft.com/en-us/library/f7fta44c)(**TKey**, **TValue**). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[DictionaryExtension Class](#_ACA67834_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# FileInfoExtension Class

Eine Erweiterungsklasse für System.IO.FileInfo .

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Extensions.FileInfoExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static class FileInfoExtension |

The **FileInfoExtension** type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [CopyTo(FileInfo, DirectoryInfo)](#_D7B54EBF_Topic) | Copies to file to a other directory. |
| Public methodStatic member | [CopyTo(FileInfo, DirectoryInfo, Boolean)](#_E0B98E88_Topic) | Copies to. |
| Public methodStatic member | [GetFilenameWithoutExtension](#_50CD9B0A_Topic) | Gets the filename without extension. |
| Public methodStatic member | [GetFileSize](#_3AD1EBC5_Topic) | Gets the size of the file. |
| Public methodStatic member | [MoveTo](#_BF32C603_Topic) | Moves to file to a other directory. |

## See Also

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# FileInfoExtension.FileInfoExtension Methods

The [FileInfoExtension](#_5CAC1596_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [CopyTo(FileInfo, DirectoryInfo)](#_D7B54EBF_Topic) | Copies to file to a other directory. |
| Public methodStatic member | [CopyTo(FileInfo, DirectoryInfo, Boolean)](#_E0B98E88_Topic) | Copies to. |
| Public methodStatic member | [GetFilenameWithoutExtension](#_50CD9B0A_Topic) | Gets the filename without extension. |
| Public methodStatic member | [GetFileSize](#_3AD1EBC5_Topic) | Gets the size of the file. |
| Public methodStatic member | [MoveTo](#_BF32C603_Topic) | Moves to file to a other directory. |

## See Also

[FileInfoExtension Class](#_5CAC1596_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# FileInfoExtension.CopyTo Method

## Overload List

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [CopyTo(FileInfo, DirectoryInfo)](#_D7B54EBF_Topic) | Copies to file to a other directory. |
| Public methodStatic member | [CopyTo(FileInfo, DirectoryInfo, Boolean)](#_E0B98E88_Topic) | Copies to. |

## See Also

[FileInfoExtension Class](#_5CAC1596_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# FileInfoExtension.CopyTo Method (FileInfo, DirectoryInfo)

Copies to file to a other directory.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static FileInfo CopyTo(  this FileInfo fi,  DirectoryInfo di ) |

#### Parameters

fi

Type: [System.IO.FileInfo](http://msdn2.microsoft.com/en-us/library/akth6b1k)

The fi.

di

Type: [System.IO.DirectoryInfo](http://msdn2.microsoft.com/en-us/library/8s2fzb02)

The di.

#### Return Value

Type: [FileInfo](http://msdn2.microsoft.com/en-us/library/akth6b1k)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [FileInfo](http://msdn2.microsoft.com/en-us/library/akth6b1k). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[FileInfoExtension Class](#_5CAC1596_Topic)

[CopyTo Overload](#_CFDA1383_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# FileInfoExtension.CopyTo Method (FileInfo, DirectoryInfo, Boolean)

Copies to.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static FileInfo CopyTo(  this FileInfo fi,  DirectoryInfo di,  bool bOverwrite ) |

#### Parameters

fi

Type: [System.IO.FileInfo](http://msdn2.microsoft.com/en-us/library/akth6b1k)

The fi.

di

Type: [System.IO.DirectoryInfo](http://msdn2.microsoft.com/en-us/library/8s2fzb02)

The di.

bOverwrite

Type: [System.Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)

if set to true [b overwrite].

#### Return Value

Type: [FileInfo](http://msdn2.microsoft.com/en-us/library/akth6b1k)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [FileInfo](http://msdn2.microsoft.com/en-us/library/akth6b1k). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[FileInfoExtension Class](#_5CAC1596_Topic)

[CopyTo Overload](#_CFDA1383_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# FileInfoExtension.GetFilenameWithoutExtension Method

Gets the filename without extension.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string GetFilenameWithoutExtension(  this FileInfo fi ) |

#### Parameters

fi

Type: [System.IO.FileInfo](http://msdn2.microsoft.com/en-us/library/akth6b1k)

The fi.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [FileInfo](http://msdn2.microsoft.com/en-us/library/akth6b1k). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[FileInfoExtension Class](#_5CAC1596_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# FileInfoExtension.GetFileSize Method

Gets the size of the file.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string GetFileSize(  this FileInfo fi ) |

#### Parameters

fi

Type: [System.IO.FileInfo](http://msdn2.microsoft.com/en-us/library/akth6b1k)

The fi.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [FileInfo](http://msdn2.microsoft.com/en-us/library/akth6b1k). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[FileInfoExtension Class](#_5CAC1596_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# FileInfoExtension.MoveTo Method

Moves to file to a other directory.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void MoveTo(  this FileInfo fi,  DirectoryInfo diDirectory ) |

#### Parameters

fi

Type: [System.IO.FileInfo](http://msdn2.microsoft.com/en-us/library/akth6b1k)

The fi.

diDirectory

Type: [System.IO.DirectoryInfo](http://msdn2.microsoft.com/en-us/library/8s2fzb02)

The di directory.

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [FileInfo](http://msdn2.microsoft.com/en-us/library/akth6b1k). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[FileInfoExtension Class](#_5CAC1596_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDataReaderExtension Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Extensions.IDataReaderExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static class IDataReaderExtension |

The **IDataReaderExtension** type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [GetDateTimeOrNull](#_404D4FE8_Topic) | Gets the date time or null. |
| Public methodStatic member | [GetGeometryFromWKB](#_647C7CD4_Topic) |  |
| Public methodStatic member | [GetInt32OrNull](#_AB02FCD_Topic) | Gets the int32 or null. |
| Public methodStatic member | [GetInt64OrNull](#_B1A2E90_Topic) | Gets the int64 or null. |
| Public methodStatic member | [GetLineStringFromWKB](#_BCA3C633_Topic) |  |
| Public methodStatic member | [GetMultiPolygonFromWKB](#_C506D1C5_Topic) |  |
| Public methodStatic member | [GetPointFromWKB](#_529C7167_Topic) |  |
| Public methodStatic member | [GetPolygonFromWKB](#_E8601B89_Topic) |  |
| Public methodStatic member | [GetStringOrNull](#_59EE62B9_Topic) | Gets the string or null. |

## See Also

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDataReaderExtension.IDataReaderExtension Methods

The [IDataReaderExtension](#_AB74F295_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [GetDateTimeOrNull](#_404D4FE8_Topic) | Gets the date time or null. |
| Public methodStatic member | [GetGeometryFromWKB](#_647C7CD4_Topic) |  |
| Public methodStatic member | [GetInt32OrNull](#_AB02FCD_Topic) | Gets the int32 or null. |
| Public methodStatic member | [GetInt64OrNull](#_B1A2E90_Topic) | Gets the int64 or null. |
| Public methodStatic member | [GetLineStringFromWKB](#_BCA3C633_Topic) |  |
| Public methodStatic member | [GetMultiPolygonFromWKB](#_C506D1C5_Topic) |  |
| Public methodStatic member | [GetPointFromWKB](#_529C7167_Topic) |  |
| Public methodStatic member | [GetPolygonFromWKB](#_E8601B89_Topic) |  |
| Public methodStatic member | [GetStringOrNull](#_59EE62B9_Topic) | Gets the string or null. |

## See Also

[IDataReaderExtension Class](#_AB74F295_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDataReaderExtension.GetDateTimeOrNull Method

Gets the date time or null.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Nullable<DateTime> GetDateTimeOrNull(  this IDataReader dbResult,  int iColumnIndex ) |

#### Parameters

dbResult

Type: [System.Data.IDataReader](http://msdn2.microsoft.com/en-us/library/sh674a6a)

The database result.

iColumnIndex

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

Index of the i column.

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDataReader](http://msdn2.microsoft.com/en-us/library/sh674a6a). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[IDataReaderExtension Class](#_AB74F295_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDataReaderExtension.GetGeometryFromWKB Method

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static IGeometry GetGeometryFromWKB(  this IDataReader dbResult,  int iColumnIndex ) |

#### Parameters

dbResult

Type: [System.Data.IDataReader](http://msdn2.microsoft.com/en-us/library/sh674a6a)

iColumnIndex

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

#### Return Value

Type: **IGeometry**

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDataReader](http://msdn2.microsoft.com/en-us/library/sh674a6a). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[IDataReaderExtension Class](#_AB74F295_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDataReaderExtension.GetInt32OrNull Method

Gets the int32 or null.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Nullable<int> GetInt32OrNull(  this IDataReader dbResult,  int iColumnIndex ) |

#### Parameters

dbResult

Type: [System.Data.IDataReader](http://msdn2.microsoft.com/en-us/library/sh674a6a)

The database result.

iColumnIndex

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

Index of the i column.

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDataReader](http://msdn2.microsoft.com/en-us/library/sh674a6a). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[IDataReaderExtension Class](#_AB74F295_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDataReaderExtension.GetInt64OrNull Method

Gets the int64 or null.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Nullable<long> GetInt64OrNull(  this IDataReader dbResult,  int iColumnIndex ) |

#### Parameters

dbResult

Type: [System.Data.IDataReader](http://msdn2.microsoft.com/en-us/library/sh674a6a)

The database result.

iColumnIndex

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

Index of the i column.

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Int64](http://msdn2.microsoft.com/en-us/library/6yy583ek))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDataReader](http://msdn2.microsoft.com/en-us/library/sh674a6a). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[IDataReaderExtension Class](#_AB74F295_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDataReaderExtension.GetLineStringFromWKB Method

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static LineString GetLineStringFromWKB(  this IDataReader dbResult,  int iColumnIndex ) |

#### Parameters

dbResult

Type: [System.Data.IDataReader](http://msdn2.microsoft.com/en-us/library/sh674a6a)

iColumnIndex

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

#### Return Value

Type: **LineString**

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDataReader](http://msdn2.microsoft.com/en-us/library/sh674a6a). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[IDataReaderExtension Class](#_AB74F295_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDataReaderExtension.GetMultiPolygonFromWKB Method

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static MultiPolygon GetMultiPolygonFromWKB(  this IDataReader dbResult,  int iColumnIndex ) |

#### Parameters

dbResult

Type: [System.Data.IDataReader](http://msdn2.microsoft.com/en-us/library/sh674a6a)

iColumnIndex

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

#### Return Value

Type: **MultiPolygon**

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDataReader](http://msdn2.microsoft.com/en-us/library/sh674a6a). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[IDataReaderExtension Class](#_AB74F295_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDataReaderExtension.GetPointFromWKB Method

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Point GetPointFromWKB(  this IDataReader dbResult,  int iColumnIndex ) |

#### Parameters

dbResult

Type: [System.Data.IDataReader](http://msdn2.microsoft.com/en-us/library/sh674a6a)

iColumnIndex

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

#### Return Value

Type: **Point**

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDataReader](http://msdn2.microsoft.com/en-us/library/sh674a6a). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[IDataReaderExtension Class](#_AB74F295_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDataReaderExtension.GetPolygonFromWKB Method

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Polygon GetPolygonFromWKB(  this IDataReader dbResult,  int iColumnIndex ) |

#### Parameters

dbResult

Type: [System.Data.IDataReader](http://msdn2.microsoft.com/en-us/library/sh674a6a)

iColumnIndex

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

#### Return Value

Type: **Polygon**

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDataReader](http://msdn2.microsoft.com/en-us/library/sh674a6a). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[IDataReaderExtension Class](#_AB74F295_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDataReaderExtension.GetStringOrNull Method

Gets the string or null.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string GetStringOrNull(  this IDataReader dbResult,  int iColumnIndex ) |

#### Parameters

dbResult

Type: [System.Data.IDataReader](http://msdn2.microsoft.com/en-us/library/sh674a6a)

The database result.

iColumnIndex

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

Index of the i column.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDataReader](http://msdn2.microsoft.com/en-us/library/sh674a6a). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[IDataReaderExtension Class](#_AB74F295_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDbConnectionExtension Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Extensions.IDbConnectionExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static class IDbConnectionExtension |

The **IDbConnectionExtension** type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [CloseIfOpen](#_51F707D_Topic) | Closes if open. |
| Public methodStatic member | [ExecuteNonQuery(IDbConnection, String,Object[])](#_C3B7FCF1_Topic) | Exceutes the non query. |
| Public methodStatic member | [ExecuteNonQuery(IDbConnection, Int32, Boolean, String,Object[])](#_5E665E91_Topic) | Executes the non query. |
| Public methodStatic member | [ExecuteScalar(IDbConnection, String,Object[])](#_F7FCCAC7_Topic) | Executes the scalar. |
| Public methodStatic member | [ExecuteScalar(IDbConnection, Int32, String,Object[])](#_CAC8D3FA_Topic) | Executes the scalar. |
| Public methodStatic member | [GetDictionary(T1, T2)](#_262E6CCE_Topic) | Gets the dictionary. |
| Public methodStatic member | [GetSortedDictionary(T1, T2)](#_145C7C20_Topic) | Liefert das Ergebnis eines Statements als SortedDictionary zurück. |
| Public methodStatic member | [SaveAsCSV](#_3E892A39_Topic) | Exports the CSV. |
| Public methodStatic member | [Select(IDbConnection, String)](#_6AA05EF5_Topic) | Selects the specified db connection. |
| Public methodStatic member | [Select(IDbConnection, String,Object[])](#_AAB43253_Topic) | Selects the specified db connection. |
| Public methodStatic member | [SelectAsDataTable](#_D1DF2146_Topic) | Selects as data table. |

## See Also

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDbConnectionExtension.IDbConnectionExtension Methods

The [IDbConnectionExtension](#_75D110BD_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [CloseIfOpen](#_51F707D_Topic) | Closes if open. |
| Public methodStatic member | [ExecuteNonQuery(IDbConnection, String,Object[])](#_C3B7FCF1_Topic) | Exceutes the non query. |
| Public methodStatic member | [ExecuteNonQuery(IDbConnection, Int32, Boolean, String,Object[])](#_5E665E91_Topic) | Executes the non query. |
| Public methodStatic member | [ExecuteScalar(IDbConnection, String,Object[])](#_F7FCCAC7_Topic) | Executes the scalar. |
| Public methodStatic member | [ExecuteScalar(IDbConnection, Int32, String,Object[])](#_CAC8D3FA_Topic) | Executes the scalar. |
| Public methodStatic member | [GetDictionary(T1, T2)](#_262E6CCE_Topic) | Gets the dictionary. |
| Public methodStatic member | [GetSortedDictionary(T1, T2)](#_145C7C20_Topic) | Liefert das Ergebnis eines Statements als SortedDictionary zurück. |
| Public methodStatic member | [SaveAsCSV](#_3E892A39_Topic) | Exports the CSV. |
| Public methodStatic member | [Select(IDbConnection, String)](#_6AA05EF5_Topic) | Selects the specified db connection. |
| Public methodStatic member | [Select(IDbConnection, String,Object[])](#_AAB43253_Topic) | Selects the specified db connection. |
| Public methodStatic member | [SelectAsDataTable](#_D1DF2146_Topic) | Selects as data table. |

## See Also

[IDbConnectionExtension Class](#_75D110BD_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDbConnectionExtension.CloseIfOpen Method

Closes if open.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static bool CloseIfOpen(  this IDbConnection dbConnection,  bool bIgnoreCloseException = true ) |

#### Parameters

dbConnection

Type: [System.Data.IDbConnection](http://msdn2.microsoft.com/en-us/library/bs16hf60)

The db connection.

bIgnoreCloseException (Optional)

Type: [System.Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)

if set to true [b ignore close exception].

#### Return Value

Type: [Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDbConnection](http://msdn2.microsoft.com/en-us/library/bs16hf60). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[IDbConnectionExtension Class](#_75D110BD_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDbConnectionExtension.ExecuteNonQuery Method

## Overload List

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [ExecuteNonQuery(IDbConnection, String,Object[])](#_C3B7FCF1_Topic) | Exceutes the non query. |
| Public methodStatic member | [ExecuteNonQuery(IDbConnection, Int32, Boolean, String,Object[])](#_5E665E91_Topic) | Executes the non query. |

## See Also

[IDbConnectionExtension Class](#_75D110BD_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDbConnectionExtension.ExecuteNonQuery Method (IDbConnection, String, Object[])

Exceutes the non query.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static int ExecuteNonQuery(  this IDbConnection dbConnection,  string strFormat,  params Object[] args ) |

#### Parameters

dbConnection

Type: [System.Data.IDbConnection](http://msdn2.microsoft.com/en-us/library/bs16hf60)

The db connection.

strFormat

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The STR format.

args

Type: [System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)[]

The args.

#### Return Value

Type: [Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDbConnection](http://msdn2.microsoft.com/en-us/library/bs16hf60). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[IDbConnectionExtension Class](#_75D110BD_Topic)

[ExecuteNonQuery Overload](#_78ED487A_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDbConnectionExtension.ExecuteNonQuery Method (IDbConnection, Int32, Boolean, String, Object[])

Executes the non query.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static int ExecuteNonQuery(  this IDbConnection dbConnection,  int iTimeout,  bool bTransaction,  string strFormat,  params Object[] args ) |

#### Parameters

dbConnection

Type: [System.Data.IDbConnection](http://msdn2.microsoft.com/en-us/library/bs16hf60)

The database connection.

iTimeout

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

The i timeout.

bTransaction

Type: [System.Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)

if set to true [b transaction].

strFormat

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The string format.

args

Type: [System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)[]

The arguments.

#### Return Value

Type: [Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDbConnection](http://msdn2.microsoft.com/en-us/library/bs16hf60). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[IDbConnectionExtension Class](#_75D110BD_Topic)

[ExecuteNonQuery Overload](#_78ED487A_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDbConnectionExtension.ExecuteScalar Method

## Overload List

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [ExecuteScalar(IDbConnection, String,Object[])](#_F7FCCAC7_Topic) | Executes the scalar. |
| Public methodStatic member | [ExecuteScalar(IDbConnection, Int32, String,Object[])](#_CAC8D3FA_Topic) | Executes the scalar. |

## See Also

[IDbConnectionExtension Class](#_75D110BD_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDbConnectionExtension.ExecuteScalar Method (IDbConnection, String, Object[])

Executes the scalar.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Object ExecuteScalar(  this IDbConnection dbConnection,  string strFormat,  params Object[] args ) |

#### Parameters

dbConnection

Type: [System.Data.IDbConnection](http://msdn2.microsoft.com/en-us/library/bs16hf60)

The database connection.

strFormat

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The string format.

args

Type: [System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)[]

The arguments.

#### Return Value

Type: [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDbConnection](http://msdn2.microsoft.com/en-us/library/bs16hf60). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[IDbConnectionExtension Class](#_75D110BD_Topic)

[ExecuteScalar Overload](#_FBD44E8C_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDbConnectionExtension.ExecuteScalar Method (IDbConnection, Int32, String, Object[])

Executes the scalar.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Object ExecuteScalar(  this IDbConnection dbConnection,  int iTimeOut,  string strFormat,  params Object[] args ) |

#### Parameters

dbConnection

Type: [System.Data.IDbConnection](http://msdn2.microsoft.com/en-us/library/bs16hf60)

The db connection.

iTimeOut

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

The i time out.

strFormat

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The STR format.

args

Type: [System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)[]

The args.

#### Return Value

Type: [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDbConnection](http://msdn2.microsoft.com/en-us/library/bs16hf60). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[IDbConnectionExtension Class](#_75D110BD_Topic)

[ExecuteScalar Overload](#_FBD44E8C_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDbConnectionExtension.GetDictionary(T1, T2) Method

Gets the dictionary.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Dictionary<T1, T2> GetDictionary<T1, T2>(  this IDbConnection dbConnection,  string strSelectStatement ) |

#### Parameters

dbConnection

Type: [System.Data.IDbConnection](http://msdn2.microsoft.com/en-us/library/bs16hf60)

The database connection.

strSelectStatement

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The string select statement.

#### Type Parameters

T1

The type of the 1.

T2

The type of the 2.

#### Return Value

Type: [Dictionary](http://msdn2.microsoft.com/en-us/library/xfhwa508)(**T1**, **T2**)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDbConnection](http://msdn2.microsoft.com/en-us/library/bs16hf60). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[IDbConnectionExtension Class](#_75D110BD_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDbConnectionExtension.GetSortedDictionary(T1, T2) Method

Liefert das Ergebnis eines Statements als SortedDictionary zurück.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static SortedDictionary<T1, T2> GetSortedDictionary<T1, T2>(  this IDbConnection dbConnection,  string strSelectStatement ) |

#### Parameters

dbConnection

Type: [System.Data.IDbConnection](http://msdn2.microsoft.com/en-us/library/bs16hf60)

The database connection.

strSelectStatement

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The string select statement.

#### Type Parameters

T1

The type of the 1.

T2

The type of the 2.

#### Return Value

Type: [SortedDictionary](http://msdn2.microsoft.com/en-us/library/f7fta44c)(**T1**, **T2**)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDbConnection](http://msdn2.microsoft.com/en-us/library/bs16hf60). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[IDbConnectionExtension Class](#_75D110BD_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDbConnectionExtension.SaveAsCSV Method

Exports the CSV.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void SaveAsCSV(  this IDbConnection dbConnection,  string strSelectStatement,  FileInfo fiExportFile,  char cDivider ) |

#### Parameters

dbConnection

Type: [System.Data.IDbConnection](http://msdn2.microsoft.com/en-us/library/bs16hf60)

The db connection.

strSelectStatement

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The STR select statement.

fiExportFile

Type: [System.IO.FileInfo](http://msdn2.microsoft.com/en-us/library/akth6b1k)

The fi export file.

cDivider

Type: [System.Char](http://msdn2.microsoft.com/en-us/library/k493b04s)

The c divider.

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDbConnection](http://msdn2.microsoft.com/en-us/library/bs16hf60). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[IDbConnectionExtension Class](#_75D110BD_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDbConnectionExtension.Select Method

## Overload List

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [Select(IDbConnection, String)](#_6AA05EF5_Topic) | Selects the specified db connection. |
| Public methodStatic member | [Select(IDbConnection, String,Object[])](#_AAB43253_Topic) | Selects the specified db connection. |

## See Also

[IDbConnectionExtension Class](#_75D110BD_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDbConnectionExtension.Select Method (IDbConnection, String)

Selects the specified db connection.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static IEnumerable<IDataReader> Select(  this IDbConnection dbConnection,  string strSelectStatement ) |

#### Parameters

dbConnection

Type: [System.Data.IDbConnection](http://msdn2.microsoft.com/en-us/library/bs16hf60)

Die aktuelle Datenbankverbindung.

strSelectStatement

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The STR select statement.

#### Return Value

Type: [IEnumerable](http://msdn2.microsoft.com/en-us/library/9eekhta0)([IDataReader](http://msdn2.microsoft.com/en-us/library/sh674a6a))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDbConnection](http://msdn2.microsoft.com/en-us/library/bs16hf60). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[IDbConnectionExtension Class](#_75D110BD_Topic)

[Select Overload](#_BA54D1F7_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDbConnectionExtension.Select Method (IDbConnection, String, Object[])

Selects the specified db connection.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static IEnumerable<IDataReader> Select(  this IDbConnection dbConnection,  string strFormat,  params Object[] args ) |

#### Parameters

dbConnection

Type: [System.Data.IDbConnection](http://msdn2.microsoft.com/en-us/library/bs16hf60)

The db connection.

strFormat

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The STR format.

args

Type: [System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)[]

The args.

#### Return Value

Type: [IEnumerable](http://msdn2.microsoft.com/en-us/library/9eekhta0)([IDataReader](http://msdn2.microsoft.com/en-us/library/sh674a6a))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDbConnection](http://msdn2.microsoft.com/en-us/library/bs16hf60). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[IDbConnectionExtension Class](#_75D110BD_Topic)

[Select Overload](#_BA54D1F7_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# IDbConnectionExtension.SelectAsDataTable Method

Selects as data table.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static DataTable SelectAsDataTable(  this IDbConnection dbConnection,  string strResultTableName,  string strFormat,  params Object[] args ) |

#### Parameters

dbConnection

Type: [System.Data.IDbConnection](http://msdn2.microsoft.com/en-us/library/bs16hf60)

The database connection.

strResultTableName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string result table.

strFormat

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The string format.

args

Type: [System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)[]

The arguments.

#### Return Value

Type: [DataTable](http://msdn2.microsoft.com/en-us/library/9186hy08)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDbConnection](http://msdn2.microsoft.com/en-us/library/bs16hf60). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[IDbConnectionExtension Class](#_75D110BD_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# ListExtension Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Extensions.ListExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static class ListExtension |

The **ListExtension** type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [SaveAsCsv(T)](#_E6A752FD_Topic) | Saves the list as CSV. |
| Public methodStatic member | [SaveAsXml(T)](#_6E561BA7_Topic) | Saves the list as XML. |

## See Also

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# ListExtension.ListExtension Methods

The [ListExtension](#_CD56FF2D_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [SaveAsCsv(T)](#_E6A752FD_Topic) | Saves the list as CSV. |
| Public methodStatic member | [SaveAsXml(T)](#_6E561BA7_Topic) | Saves the list as XML. |

## See Also

[ListExtension Class](#_CD56FF2D_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# ListExtension.SaveAsCsv(T) Method

Saves the list as CSV.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void SaveAsCsv<T>(  this List<T> lValues,  string strOutputFilename,  bool bUseQuotationMark = false ) |

#### Parameters

lValues

Type: [System.Collections.Generic.List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)(**T**)

The l values.

strOutputFilename

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The string output filename.

bUseQuotationMark (Optional)

Type: [System.Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)

if set to true [b use quotation mark].

#### Type Parameters

T

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)(**T**). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## Exceptions

|  |  |
| --- | --- |
| Exception | Condition |
| [ArgumentException](http://msdn2.microsoft.com/en-us/library/3w1b3114) | Die Liste darf nicht leer sein! - lValues or Der Ausgabedateiname darf nicht leer sein! - strOutputFilename |
| [ArgumentException](http://msdn2.microsoft.com/en-us/library/3w1b3114) | Die Liste darf nicht leer sein! - lValues or Der Ausgabedateiname darf nicht leer sein! - strOutputFilename |

## See Also

[ListExtension Class](#_CD56FF2D_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# ListExtension.SaveAsXml(T) Method

Saves the list as XML.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void SaveAsXml<T>(  this List<T> lValues,  string strOutputFilename ) where T : IXmlExport |

#### Parameters

lValues

Type: [System.Collections.Generic.List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)(**T**)

The l values.

strOutputFilename

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The string output filename.

#### Type Parameters

T

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)(**T**). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[ListExtension Class](#_CD56FF2D_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# RandomExtension Class

Eine Erweiterungsklasse für System.Random .

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Extensions.RandomExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static class RandomExtension |

The **RandomExtension** type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [NextAutoKennzeichen](#_C36FDDA7_Topic) | Nexts the automatic kennzeichen. |
| Public methodStatic member | [NextBool](#_7821B7B_Topic) | Liefert einen Zufalls Boolschen Wert zurück. |
| Public methodStatic member | [NextColor](#_7C6C1B78_Topic) | Returns the next Color. |
| Public methodStatic member | [NextDateTime(Random, DateTimeKind)](#_3B0E991F_Topic) | Nexts the date time. |
| Public methodStatic member | [NextDateTime(Random, DateTime, DateTime, DateTimeKind)](#_6B2EC589_Topic) | Nexts the date time. |
| Public methodStatic member | [NextEnum(Random, Type)](#_606FA6DF_Topic) | Nexts the enum. |
| Public methodStatic member | [NextEnum(T)(Random)](#_DE3A6E4E_Topic) | Liefert einen zufälligen Enumeration Wert zu einer Enumeration zurück. |
| Public methodStatic member | [NextInt](#_19DEE948_Topic) | Der Vollständigkeit wegen. |
| Public methodStatic member | [NextLong](#_92A51B80_Topic) | Nexts the long. |
| Public methodStatic member | [NextObject(T)(Random, ICollection(T))](#_5F856226_Topic) | Nexts the object. |
| Public methodStatic member | [NextObject(T)(Random, IList(T))](#_B64BDF6F_Topic) | Nexts the object. |
| Public methodStatic member | [NextSalt](#_AE615FF1_Topic) | Nexts the salt. |
| Public methodStatic member | [NextString](#_A4D582B0_Topic) | Nexts the string. |
| Public methodStatic member | [NextUInt](#_DB2D04C9_Topic) | Der Vollständigkeit wegen. |
| Public methodStatic member | [NextULong](#_22C7BDA8_Topic) | Nexts the u long. |

## See Also

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# RandomExtension.RandomExtension Methods

The [RandomExtension](#_D406B8FD_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [NextAutoKennzeichen](#_C36FDDA7_Topic) | Nexts the automatic kennzeichen. |
| Public methodStatic member | [NextBool](#_7821B7B_Topic) | Liefert einen Zufalls Boolschen Wert zurück. |
| Public methodStatic member | [NextColor](#_7C6C1B78_Topic) | Returns the next Color. |
| Public methodStatic member | [NextDateTime(Random, DateTimeKind)](#_3B0E991F_Topic) | Nexts the date time. |
| Public methodStatic member | [NextDateTime(Random, DateTime, DateTime, DateTimeKind)](#_6B2EC589_Topic) | Nexts the date time. |
| Public methodStatic member | [NextEnum(Random, Type)](#_606FA6DF_Topic) | Nexts the enum. |
| Public methodStatic member | [NextEnum(T)(Random)](#_DE3A6E4E_Topic) | Liefert einen zufälligen Enumeration Wert zu einer Enumeration zurück. |
| Public methodStatic member | [NextInt](#_19DEE948_Topic) | Der Vollständigkeit wegen. |
| Public methodStatic member | [NextLong](#_92A51B80_Topic) | Nexts the long. |
| Public methodStatic member | [NextObject(T)(Random, ICollection(T))](#_5F856226_Topic) | Nexts the object. |
| Public methodStatic member | [NextObject(T)(Random, IList(T))](#_B64BDF6F_Topic) | Nexts the object. |
| Public methodStatic member | [NextSalt](#_AE615FF1_Topic) | Nexts the salt. |
| Public methodStatic member | [NextString](#_A4D582B0_Topic) | Nexts the string. |
| Public methodStatic member | [NextUInt](#_DB2D04C9_Topic) | Der Vollständigkeit wegen. |
| Public methodStatic member | [NextULong](#_22C7BDA8_Topic) | Nexts the u long. |

## See Also

[RandomExtension Class](#_D406B8FD_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# RandomExtension.NextAutoKennzeichen Method

Nexts the automatic kennzeichen.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string NextAutoKennzeichen(  this Random r ) |

#### Parameters

r

Type: [System.Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek)

The r.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RandomExtension Class](#_D406B8FD_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# RandomExtension.NextBool Method

Liefert einen Zufalls Boolschen Wert zurück.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static bool NextBool(  this Random r ) |

#### Parameters

r

Type: [System.Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek)

The current random object

#### Return Value

Type: [Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RandomExtension Class](#_D406B8FD_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# RandomExtension.NextColor Method

Returns the next Color.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Color NextColor(  this Random r ) |

#### Parameters

r

Type: [System.Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek)

The r.

#### Return Value

Type: [Color](http://msdn2.microsoft.com/en-us/library/ms653055)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RandomExtension Class](#_D406B8FD_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# RandomExtension.NextDateTime Method

## Overload List

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [NextDateTime(Random, DateTimeKind)](#_3B0E991F_Topic) | Nexts the date time. |
| Public methodStatic member | [NextDateTime(Random, DateTime, DateTime, DateTimeKind)](#_6B2EC589_Topic) | Nexts the date time. |

## See Also

[RandomExtension Class](#_D406B8FD_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# RandomExtension.NextDateTime Method (Random, DateTimeKind)

Nexts the date time.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static DateTime NextDateTime(  this Random r,  DateTimeKind dtk = DateTimeKind.Local ) |

#### Parameters

r

Type: [System.Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek)

The r.

dtk (Optional)

Type: [System.DateTimeKind](http://msdn2.microsoft.com/en-us/library/shx7s921)

The DTK.

#### Return Value

Type: [DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RandomExtension Class](#_D406B8FD_Topic)

[NextDateTime Overload](#_D557E783_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# RandomExtension.NextDateTime Method (Random, DateTime, DateTime, DateTimeKind)

Nexts the date time.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static DateTime NextDateTime(  this Random r,  DateTime dtMin,  DateTime dtMax,  DateTimeKind dtk = DateTimeKind.Local ) |

#### Parameters

r

Type: [System.Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek)

The r.

dtMin

Type: [System.DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y)

The dt minimum.

dtMax

Type: [System.DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y)

The dt maximum.

dtk (Optional)

Type: [System.DateTimeKind](http://msdn2.microsoft.com/en-us/library/shx7s921)

The DTK.

#### Return Value

Type: [DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RandomExtension Class](#_D406B8FD_Topic)

[NextDateTime Overload](#_D557E783_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# RandomExtension.NextEnum Method

## Overload List

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [NextEnum(T)(Random)](#_DE3A6E4E_Topic) | Liefert einen zufälligen Enumeration Wert zu einer Enumeration zurück. |
| Public methodStatic member | [NextEnum(Random, Type)](#_606FA6DF_Topic) | Nexts the enum. |

## See Also

[RandomExtension Class](#_D406B8FD_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# RandomExtension.NextEnum(T) Method (Random)

Liefert einen zufälligen Enumeration Wert zu einer Enumeration zurück.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static T NextEnum<T>(  this Random r ) |

#### Parameters

r

Type: [System.Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek)

The current random object

#### Type Parameters

T

#### Return Value

Type: **T**

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RandomExtension Class](#_D406B8FD_Topic)

[NextEnum Overload](#_14E32A50_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# RandomExtension.NextEnum Method (Random, Type)

Nexts the enum.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static int NextEnum(  this Random r,  Type tEnum ) |

#### Parameters

r

Type: [System.Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek)

The r.

tEnum

Type: [System.Type](http://msdn2.microsoft.com/en-us/library/42892f65)

The t enum.

#### Return Value

Type: [Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RandomExtension Class](#_D406B8FD_Topic)

[NextEnum Overload](#_14E32A50_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# RandomExtension.NextInt Method

Der Vollständigkeit wegen.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static int NextInt(  this Random r ) |

#### Parameters

r

Type: [System.Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek)

The r.

#### Return Value

Type: [Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RandomExtension Class](#_D406B8FD_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# RandomExtension.NextLong Method

Nexts the long.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static long NextLong(  this Random r ) |

#### Parameters

r

Type: [System.Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek)

The r.

#### Return Value

Type: [Int64](http://msdn2.microsoft.com/en-us/library/6yy583ek)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RandomExtension Class](#_D406B8FD_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# RandomExtension.NextObject Method

## Overload List

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [NextObject(T)(Random, ICollection(T))](#_5F856226_Topic) | Nexts the object. |
| Public methodStatic member | [NextObject(T)(Random, IList(T))](#_B64BDF6F_Topic) | Nexts the object. |

## See Also

[RandomExtension Class](#_D406B8FD_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# RandomExtension.NextObject(T) Method (Random, ICollection(T))

Nexts the object.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static T NextObject<T>(  this Random r,  ICollection<T> cValues ) |

#### Parameters

r

Type: [System.Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek)

The r.

cValues

Type: [System.Collections.Generic.ICollection](http://msdn2.microsoft.com/en-us/library/92t2ye13)(**T**)

The c values.

#### Type Parameters

T

#### Return Value

Type: **T**

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RandomExtension Class](#_D406B8FD_Topic)

[NextObject Overload](#_57707245_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# RandomExtension.NextObject(T) Method (Random, IList(T))

Nexts the object.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static T NextObject<T>(  this Random r,  IList<T> lValues ) |

#### Parameters

r

Type: [System.Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek)

The r.

lValues

Type: [System.Collections.Generic.IList](http://msdn2.microsoft.com/en-us/library/5y536ey6)(**T**)

The l values.

#### Type Parameters

T

#### Return Value

Type: **T**

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RandomExtension Class](#_D406B8FD_Topic)

[NextObject Overload](#_57707245_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# RandomExtension.NextSalt Method

Nexts the salt.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string NextSalt(  this Random r,  int iSaltLength = 5 ) |

#### Parameters

r

Type: [System.Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek)

The r.

iSaltLength (Optional)

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

Length of the i salt.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RandomExtension Class](#_D406B8FD_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# RandomExtension.NextString Method

Nexts the string.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string NextString(  this Random r,  int iMinLength,  int iMaxLength ) |

#### Parameters

r

Type: [System.Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek)

The r.

iMinLength

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

Length of the i min.

iMaxLength

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

Length of the i max.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RandomExtension Class](#_D406B8FD_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# RandomExtension.NextUInt Method

Der Vollständigkeit wegen.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static uint NextUInt(  this Random r ) |

#### Parameters

r

Type: [System.Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek)

The r.

#### Return Value

Type: [UInt32](http://msdn2.microsoft.com/en-us/library/ctys3981)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RandomExtension Class](#_D406B8FD_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# RandomExtension.NextULong Method

Nexts the u long.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static ulong NextULong(  this Random r ) |

#### Parameters

r

Type: [System.Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek)

The r.

#### Return Value

Type: [UInt64](http://msdn2.microsoft.com/en-us/library/06cf7918)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](http://msdn2.microsoft.com/en-us/library/ts6se2ek). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RandomExtension Class](#_D406B8FD_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# SQLiteExtension Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Extensions.SQLiteExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static class SQLiteExtension |

The **SQLiteExtension** type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [Analyze](#_6B99A80D_Topic) | Analyzes the specified database connection. |
| Public methodStatic member | [DropTable](#_5A7B721C_Topic) | Drops the table. |
| Public methodStatic member | [GetLastPrimarykey](#_5074D771_Topic) | Gets the last primarykey. |
| Public methodStatic member | [GetTableNames](#_6A59F3FA_Topic) | Gets the table names. |
| Public methodStatic member | [GetViewNames](#_C395B296_Topic) | Gets the view names. |
| Public methodStatic member | [PrepareInsertStatement](#_54604732_Topic) | Prepares the insert statement. |
| Public methodStatic member | [Reindex](#_856AA5BD_Topic) | Reindexes the specified database connection. |
| Public methodStatic member | [TableExists](#_4527D415_Topic) | Tables the exists. |
| Public methodStatic member | [Truncate](#_A3F971E4_Topic) | Truncates the specified string tablename. |
| Public methodStatic member | [Vacuum](#_7BD3C5A4_Topic) | Vacuums the specified database connection. |

## See Also

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# SQLiteExtension.SQLiteExtension Methods

The [SQLiteExtension](#_D75A4EF2_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [Analyze](#_6B99A80D_Topic) | Analyzes the specified database connection. |
| Public methodStatic member | [DropTable](#_5A7B721C_Topic) | Drops the table. |
| Public methodStatic member | [GetLastPrimarykey](#_5074D771_Topic) | Gets the last primarykey. |
| Public methodStatic member | [GetTableNames](#_6A59F3FA_Topic) | Gets the table names. |
| Public methodStatic member | [GetViewNames](#_C395B296_Topic) | Gets the view names. |
| Public methodStatic member | [PrepareInsertStatement](#_54604732_Topic) | Prepares the insert statement. |
| Public methodStatic member | [Reindex](#_856AA5BD_Topic) | Reindexes the specified database connection. |
| Public methodStatic member | [TableExists](#_4527D415_Topic) | Tables the exists. |
| Public methodStatic member | [Truncate](#_A3F971E4_Topic) | Truncates the specified string tablename. |
| Public methodStatic member | [Vacuum](#_7BD3C5A4_Topic) | Vacuums the specified database connection. |

## See Also

[SQLiteExtension Class](#_D75A4EF2_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# SQLiteExtension.Analyze Method

Analyzes the specified database connection.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void Analyze(  this SQLiteConnection dbConnection ) |

#### Parameters

dbConnection

Type: **SQLiteConnection**

The database connection.

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type **SQLiteConnection**. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[SQLiteExtension Class](#_D75A4EF2_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# SQLiteExtension.DropTable Method

Drops the table.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void DropTable(  this SQLiteConnection dbConnection,  string strTablename ) |

#### Parameters

dbConnection

Type: **SQLiteConnection**

The database connection.

strTablename

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The string tablename.

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type **SQLiteConnection**. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[SQLiteExtension Class](#_D75A4EF2_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# SQLiteExtension.GetLastPrimarykey Method

Gets the last primarykey.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static long GetLastPrimarykey(  this SQLiteConnection dbConnection ) |

#### Parameters

dbConnection

Type: **SQLiteConnection**

The database connection.

#### Return Value

Type: [Int64](http://msdn2.microsoft.com/en-us/library/6yy583ek)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type **SQLiteConnection**. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[SQLiteExtension Class](#_D75A4EF2_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# SQLiteExtension.GetTableNames Method

Gets the table names.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static List<string> GetTableNames(  this SQLiteConnection dbConnection ) |

#### Parameters

dbConnection

Type: **SQLiteConnection**

The database connection.

#### Return Value

Type: [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type **SQLiteConnection**. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[SQLiteExtension Class](#_D75A4EF2_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# SQLiteExtension.GetViewNames Method

Gets the view names.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static List<string> GetViewNames(  this SQLiteConnection dbConnection ) |

#### Parameters

dbConnection

Type: **SQLiteConnection**

The database connection.

#### Return Value

Type: [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type **SQLiteConnection**. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[SQLiteExtension Class](#_D75A4EF2_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# SQLiteExtension.PrepareInsertStatement Method

Prepares the insert statement.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static SQLiteCommand PrepareInsertStatement(  this SQLiteConnection dbConnection,  string strTablename,  bool bIgnorePrimaryKey = true ) |

#### Parameters

dbConnection

Type: **SQLiteConnection**

The database connection.

strTablename

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The string tablename.

bIgnorePrimaryKey (Optional)

Type: [System.Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)

if set to true [b ignore primary key].

#### Return Value

Type: **SQLiteCommand**

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type **SQLiteConnection**. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[SQLiteExtension Class](#_D75A4EF2_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# SQLiteExtension.Reindex Method

Reindexes the specified database connection.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void Reindex(  this SQLiteConnection dbConnection ) |

#### Parameters

dbConnection

Type: **SQLiteConnection**

The database connection.

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type **SQLiteConnection**. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[SQLiteExtension Class](#_D75A4EF2_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# SQLiteExtension.TableExists Method

Tables the exists.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static bool TableExists(  this SQLiteConnection dbConnection,  string strTablename ) |

#### Parameters

dbConnection

Type: **SQLiteConnection**

The db connection.

strTablename

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The STR tablename.

#### Return Value

Type: [Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type **SQLiteConnection**. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[SQLiteExtension Class](#_D75A4EF2_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# SQLiteExtension.Truncate Method

Truncates the specified string tablename.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void Truncate(  this SQLiteConnection dbConnection,  string strTablename ) |

#### Parameters

dbConnection

Type: **SQLiteConnection**

The database connection.

strTablename

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The string tablename.

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type **SQLiteConnection**. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[SQLiteExtension Class](#_D75A4EF2_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# SQLiteExtension.Vacuum Method

Vacuums the specified database connection.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void Vacuum(  this SQLiteConnection dbConnection ) |

#### Parameters

dbConnection

Type: **SQLiteConnection**

The database connection.

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type **SQLiteConnection**. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[SQLiteExtension Class](#_D75A4EF2_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# StringBuilderExtension Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Extensions.StringBuilderExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static class StringBuilderExtension |

The **StringBuilderExtension** type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [AppendLine](#_2D5DBAEF_Topic) | Appends the line. |

## See Also

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# StringBuilderExtension.StringBuilderExtension Methods

The [StringBuilderExtension](#_2DC53BAA_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [AppendLine](#_2D5DBAEF_Topic) | Appends the line. |

## See Also

[StringBuilderExtension Class](#_2DC53BAA_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# StringBuilderExtension.AppendLine Method

Appends the line.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void AppendLine(  this StringBuilder sb,  string strFormat,  params Object[] param ) |

#### Parameters

sb

Type: [System.Text.StringBuilder](http://msdn2.microsoft.com/en-us/library/y9sxk6fy)

The sb.

strFormat

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The string format.

param

Type: [System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)[]

The parameter.

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [StringBuilder](http://msdn2.microsoft.com/en-us/library/y9sxk6fy). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[StringBuilderExtension Class](#_2DC53BAA_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# StringExtension Class

Eine Erweiterungsklasse für unseren lieblichen String.

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Extensions.StringExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static class StringExtension |

The **StringExtension** type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [Capitalize](#_544264B2_Topic) | Capitalizes the specified string content. |
| Public methodStatic member | [CapitalizeOnlyFirstLetter](#_6C30E97A_Topic) | Capitalizes the only first letter. |
| Public methodStatic member | [EqualsIgnoreCase](#_76C09BA8_Topic) | Vergleicht zwei String wobei nicht zwischen Groß- und Kleinschreibung unterschieden wird. |
| Public methodStatic member | [IsEmpty](#_12B3F024_Topic) | Liefert zurück ob ein String null oder dessen Länge 0 ist. |
| Public methodStatic member | [IsNotEmpty](#_96F03459_Topic) | Liefert zurück ob ein String nicht null oder dessen Länge > 0 ist. |
| Public methodStatic member | [RemoveQuotation](#_BB0E49B2_Topic) | Removes the quotation. |
| Public methodStatic member | [ReplaceHtml](#_199CC8DA_Topic) | Replaces the HTML. |
| Public methodStatic member | [ToColor](#_CC532D6B_Topic) | Liefert aus einem String wie z.b. "#FFAACC" den Farbwert als Color Objekt zurück. |

## See Also

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# StringExtension.StringExtension Methods

The [StringExtension](#_C8D711A9_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [Capitalize](#_544264B2_Topic) | Capitalizes the specified string content. |
| Public methodStatic member | [CapitalizeOnlyFirstLetter](#_6C30E97A_Topic) | Capitalizes the only first letter. |
| Public methodStatic member | [EqualsIgnoreCase](#_76C09BA8_Topic) | Vergleicht zwei String wobei nicht zwischen Groß- und Kleinschreibung unterschieden wird. |
| Public methodStatic member | [IsEmpty](#_12B3F024_Topic) | Liefert zurück ob ein String null oder dessen Länge 0 ist. |
| Public methodStatic member | [IsNotEmpty](#_96F03459_Topic) | Liefert zurück ob ein String nicht null oder dessen Länge > 0 ist. |
| Public methodStatic member | [RemoveQuotation](#_BB0E49B2_Topic) | Removes the quotation. |
| Public methodStatic member | [ReplaceHtml](#_199CC8DA_Topic) | Replaces the HTML. |
| Public methodStatic member | [ToColor](#_CC532D6B_Topic) | Liefert aus einem String wie z.b. "#FFAACC" den Farbwert als Color Objekt zurück. |

## See Also

[StringExtension Class](#_C8D711A9_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# StringExtension.Capitalize Method

Capitalizes the specified string content.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string Capitalize(  this string strContent ) |

#### Parameters

strContent

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Content of the string.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[StringExtension Class](#_C8D711A9_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# StringExtension.CapitalizeOnlyFirstLetter Method

Capitalizes the only first letter.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string CapitalizeOnlyFirstLetter(  this string strContent ) |

#### Parameters

strContent

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Content of the string.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[StringExtension Class](#_C8D711A9_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# StringExtension.EqualsIgnoreCase Method

Vergleicht zwei String wobei nicht zwischen Groß- und Kleinschreibung unterschieden wird.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static bool EqualsIgnoreCase(  this string strContent,  string strOtherString ) |

#### Parameters

strContent

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Content of the string.

strOtherString

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The string other string.

#### Return Value

Type: [Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[StringExtension Class](#_C8D711A9_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# StringExtension.IsEmpty Method

Liefert zurück ob ein String null oder dessen Länge 0 ist.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static bool IsEmpty(  this string strContent ) |

#### Parameters

strContent

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Return Value

Type: [Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[StringExtension Class](#_C8D711A9_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# StringExtension.IsNotEmpty Method

Liefert zurück ob ein String nicht null oder dessen Länge > 0 ist.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static bool IsNotEmpty(  this string strContent ) |

#### Parameters

strContent

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Return Value

Type: [Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[StringExtension Class](#_C8D711A9_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# StringExtension.RemoveQuotation Method

Removes the quotation.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string RemoveQuotation(  this string strContent ) |

#### Parameters

strContent

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Content of the STR.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[StringExtension Class](#_C8D711A9_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# StringExtension.ReplaceHtml Method

Replaces the HTML.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string ReplaceHtml(  this string strContent ) |

#### Parameters

strContent

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Content of the STR.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[StringExtension Class](#_C8D711A9_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# StringExtension.ToColor Method

Liefert aus einem String wie z.b. "#FFAACC" den Farbwert als Color Objekt zurück.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Color ToColor(  this string strColor,  Color cDefault ) |

#### Parameters

strColor

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

cDefault

Type: [System.Windows.Media.Color](http://msdn2.microsoft.com/en-us/library/ms653055)

#### Return Value

Type: [Color](http://msdn2.microsoft.com/en-us/library/ms653055)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## Remarks

Es könnten auch die .NET symbolischen Farbnamen wie "SlateBlue" übergeben werden.

## See Also

[StringExtension Class](#_C8D711A9_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# TimeSpanExtension Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Extensions.TimeSpanExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static class TimeSpanExtension |

The **TimeSpanExtension** type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [ToHHMMSSString](#_F762811A_Topic) | To the HHMMSS string. |
| Public methodStatic member | [ToShortString](#_2128FE1B_Topic) | Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance. |

## See Also

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# TimeSpanExtension.TimeSpanExtension Methods

The [TimeSpanExtension](#_2C8B03E2_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [ToHHMMSSString](#_F762811A_Topic) | To the HHMMSS string. |
| Public methodStatic member | [ToShortString](#_2128FE1B_Topic) | Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance. |

## See Also

[TimeSpanExtension Class](#_2C8B03E2_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# TimeSpanExtension.ToHHMMSSString Method

To the HHMMSS string.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string ToHHMMSSString(  this TimeSpan ts ) |

#### Parameters

ts

Type: [System.TimeSpan](http://msdn2.microsoft.com/en-us/library/269ew577)

The ts.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [TimeSpan](http://msdn2.microsoft.com/en-us/library/269ew577). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[TimeSpanExtension Class](#_2C8B03E2_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# TimeSpanExtension.ToShortString Method

Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string ToShortString(  this TimeSpan ts ) |

#### Parameters

ts

Type: [System.TimeSpan](http://msdn2.microsoft.com/en-us/library/269ew577)

The ts.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)  
A [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance.

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [TimeSpan](http://msdn2.microsoft.com/en-us/library/269ew577). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[TimeSpanExtension Class](#_2C8B03E2_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# TypeExtension Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Extensions.TypeExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static class TypeExtension |

The **TypeExtension** type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [DerivedFromType](#_D3FBDF66_Topic) | Check if the class is derived from a other class. |
| Public methodStatic member | [ImplementsInterface](#_FC775E1D_Topic) | Check if the class implements the interface. |

## See Also

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# TypeExtension.TypeExtension Methods

The [TypeExtension](#_9A730ED4_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [DerivedFromType](#_D3FBDF66_Topic) | Check if the class is derived from a other class. |
| Public methodStatic member | [ImplementsInterface](#_FC775E1D_Topic) | Check if the class implements the interface. |

## See Also

[TypeExtension Class](#_9A730ED4_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# TypeExtension.DerivedFromType Method

Check if the class is derived from a other class.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static bool DerivedFromType(  this Type tClass,  Type tBase ) |

#### Parameters

tClass

Type: [System.Type](http://msdn2.microsoft.com/en-us/library/42892f65)

The t class.

tBase

Type: [System.Type](http://msdn2.microsoft.com/en-us/library/42892f65)

The t base.

#### Return Value

Type: [Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Type](http://msdn2.microsoft.com/en-us/library/42892f65). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[TypeExtension Class](#_9A730ED4_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# TypeExtension.ImplementsInterface Method

Check if the class implements the interface.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static bool ImplementsInterface(  this Type tClass,  Type tInterface ) |

#### Parameters

tClass

Type: [System.Type](http://msdn2.microsoft.com/en-us/library/42892f65)

The t class.

tInterface

Type: [System.Type](http://msdn2.microsoft.com/en-us/library/42892f65)

The t interface.

#### Return Value

Type: [Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Type](http://msdn2.microsoft.com/en-us/library/42892f65). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[TypeExtension Class](#_9A730ED4_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Extensions.XElementExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static class XElementExtension |

The **XElementExtension** type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [GetBitmapSourceFromNode](#_81171578_Topic) | Gets the bitmap source from node. |
| Public methodStatic member | [GetBoolAttribute](#_E90EA124_Topic) | Gets the bool attribute. |
| Public methodStatic member | [GetBoolFromNode](#_7944010B_Topic) | Gets the bool from node. |
| Public methodStatic member | [GetColorFromNode](#_8EB4BF0B_Topic) | Gets the color from node. |
| Public methodStatic member | [GetDateTimeAttribute](#_F6B2A467_Topic) | Gets the date time attribute. |
| Public methodStatic member | [GetDateTimeFromNodeUTC](#_61E93C53_Topic) | Gets the date time from node UTC. |
| Public methodStatic member | [GetDirectoryInfoFromNode](#_B5D21993_Topic) | Gets the directory information from node. |
| Public methodStatic member | [GetDoubleAttribute](#_B88C898C_Topic) | Gets the double attribute. |
| Public methodStatic member | [GetDoubleFromNode](#_4A0FB9F9_Topic) | Gets the double from node. |
| Public methodStatic member | [GetDoubleFromNodeComma](#_B1E14BF5_Topic) | Gets the double from node comma. |
| Public methodStatic member | [GetDoubleFromNodePoint](#_C7E41FA1_Topic) | Gets the double from node point. |
| Public methodStatic member | [GetEnumFromNode(T)](#_FA9F6768_Topic) | Gets the enum from node. |
| Public methodStatic member | [GetFileInfoFromNode](#_C306B484_Topic) | Gets the file information from node. |
| Public methodStatic member | [GetGuidFromNode](#_52B495CE_Topic) | Gets the unique identifier from node. |
| Public methodStatic member | [GetInt32Attribute](#_5AFC12AC_Topic) | Gets the int32 attribute. |
| Public methodStatic member | [GetInt32FromNode](#_F1F2C83B_Topic) | Gets the int32 from node. |
| Public methodStatic member | [GetInt64Attribute](#_FE1CC46A_Topic) | Gets the int64 attribute. |
| Public methodStatic member | [GetLongFromNode](#_27753F38_Topic) | Gets the long from node. |
| Public methodStatic member | [GetProperty(T)](#_29635D47_Topic) | Gets the property. |
| Public methodStatic member | [GetSingleAttribute](#_6B3A7C62_Topic) | Gets the single attribute. |
| Public methodStatic member | [GetSingleFromNode](#_BFA93585_Topic) | Gets the single from node. |
| Public methodStatic member | [GetSingleFromNodeComma](#_A22C973C_Topic) | Gets the single from node comma. |
| Public methodStatic member | [GetSingleFromNodePoint](#_CEF96BAC_Topic) | Gets the single from node point. |
| Public methodStatic member | [GetStringAttribute](#_B911BD79_Topic) | Gets the string attribute. |
| Public methodStatic member | [GetStringFromCData](#_F48EE627_Topic) | Liefert den ersten CData Eintrag des Knotens wenn einer vorhanden ist. |
| Public methodStatic member | [GetStringFromNode(XElement, String)](#_E32C0942_Topic) | Gets the string from node. |
| Public methodStatic member | [GetStringFromNode(XElement, String, String)](#_99FA43A5_Topic) | Gets the string from node. |
| Public methodStatic member | [GetUInt32Attribute](#_A3FD411_Topic) | Gets the u int32 attribute. |
| Public methodStatic member | [GetUInt32FromNode](#_3EC53D3_Topic) | Gets the u int32 from node. |
| Public methodStatic member | [GetXElement](#_CA5E95D5_Topic) | Gets the x element. |
| Public methodStatic member | [SaveDefault](#_D321A14D_Topic) | Speichert einen XML Baum mit den Standardoptionen. |
| Public methodStatic member | [ToDefaultString](#_57675203_Topic) | To the default string. |

## See Also

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.XElementExtension Methods

The [XElementExtension](#_69AF9305_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [GetBitmapSourceFromNode](#_81171578_Topic) | Gets the bitmap source from node. |
| Public methodStatic member | [GetBoolAttribute](#_E90EA124_Topic) | Gets the bool attribute. |
| Public methodStatic member | [GetBoolFromNode](#_7944010B_Topic) | Gets the bool from node. |
| Public methodStatic member | [GetColorFromNode](#_8EB4BF0B_Topic) | Gets the color from node. |
| Public methodStatic member | [GetDateTimeAttribute](#_F6B2A467_Topic) | Gets the date time attribute. |
| Public methodStatic member | [GetDateTimeFromNodeUTC](#_61E93C53_Topic) | Gets the date time from node UTC. |
| Public methodStatic member | [GetDirectoryInfoFromNode](#_B5D21993_Topic) | Gets the directory information from node. |
| Public methodStatic member | [GetDoubleAttribute](#_B88C898C_Topic) | Gets the double attribute. |
| Public methodStatic member | [GetDoubleFromNode](#_4A0FB9F9_Topic) | Gets the double from node. |
| Public methodStatic member | [GetDoubleFromNodeComma](#_B1E14BF5_Topic) | Gets the double from node comma. |
| Public methodStatic member | [GetDoubleFromNodePoint](#_C7E41FA1_Topic) | Gets the double from node point. |
| Public methodStatic member | [GetEnumFromNode(T)](#_FA9F6768_Topic) | Gets the enum from node. |
| Public methodStatic member | [GetFileInfoFromNode](#_C306B484_Topic) | Gets the file information from node. |
| Public methodStatic member | [GetGuidFromNode](#_52B495CE_Topic) | Gets the unique identifier from node. |
| Public methodStatic member | [GetInt32Attribute](#_5AFC12AC_Topic) | Gets the int32 attribute. |
| Public methodStatic member | [GetInt32FromNode](#_F1F2C83B_Topic) | Gets the int32 from node. |
| Public methodStatic member | [GetInt64Attribute](#_FE1CC46A_Topic) | Gets the int64 attribute. |
| Public methodStatic member | [GetLongFromNode](#_27753F38_Topic) | Gets the long from node. |
| Public methodStatic member | [GetProperty(T)](#_29635D47_Topic) | Gets the property. |
| Public methodStatic member | [GetSingleAttribute](#_6B3A7C62_Topic) | Gets the single attribute. |
| Public methodStatic member | [GetSingleFromNode](#_BFA93585_Topic) | Gets the single from node. |
| Public methodStatic member | [GetSingleFromNodeComma](#_A22C973C_Topic) | Gets the single from node comma. |
| Public methodStatic member | [GetSingleFromNodePoint](#_CEF96BAC_Topic) | Gets the single from node point. |
| Public methodStatic member | [GetStringAttribute](#_B911BD79_Topic) | Gets the string attribute. |
| Public methodStatic member | [GetStringFromCData](#_F48EE627_Topic) | Liefert den ersten CData Eintrag des Knotens wenn einer vorhanden ist. |
| Public methodStatic member | [GetStringFromNode(XElement, String)](#_E32C0942_Topic) | Gets the string from node. |
| Public methodStatic member | [GetStringFromNode(XElement, String, String)](#_99FA43A5_Topic) | Gets the string from node. |
| Public methodStatic member | [GetUInt32Attribute](#_A3FD411_Topic) | Gets the u int32 attribute. |
| Public methodStatic member | [GetUInt32FromNode](#_3EC53D3_Topic) | Gets the u int32 from node. |
| Public methodStatic member | [GetXElement](#_CA5E95D5_Topic) | Gets the x element. |
| Public methodStatic member | [SaveDefault](#_D321A14D_Topic) | Speichert einen XML Baum mit den Standardoptionen. |
| Public methodStatic member | [ToDefaultString](#_57675203_Topic) | To the default string. |

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetBitmapSourceFromNode Method

Gets the bitmap source from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static BitmapSource GetBitmapSourceFromNode(  this XElement xCurrentElement,  string strElementName ) |

#### Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The x current element.

strElementName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string element.

#### Return Value

Type: [BitmapSource](http://msdn2.microsoft.com/en-us/library/ms653387)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetBoolAttribute Method

Gets the bool attribute.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Nullable<bool> GetBoolAttribute(  this XElement eParent,  string strName ) |

#### Parameters

eParent

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The e parent.

strName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string.

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetBoolFromNode Method

Gets the bool from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Nullable<bool> GetBoolFromNode(  this XElement xCurrentElement,  string strElementName ) |

#### Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The x current element.

strElementName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string element.

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetColorFromNode Method

Gets the color from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Color GetColorFromNode(  this XElement xCurrentElement,  string strElementName,  Color cDefault ) |

#### Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The x current element.

strElementName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string element.

cDefault

Type: [System.Windows.Media.Color](http://msdn2.microsoft.com/en-us/library/ms653055)

The c default.

#### Return Value

Type: [Color](http://msdn2.microsoft.com/en-us/library/ms653055)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetDateTimeAttribute Method

Gets the date time attribute.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Nullable<DateTime> GetDateTimeAttribute(  this XElement eParent,  string strName,  bool bIsUTC = false ) |

#### Parameters

eParent

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The e parent.

strName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string.

bIsUTC (Optional)

Type: [System.Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)

if set to true [b is UTC].

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetDateTimeFromNodeUTC Method

Gets the date time from node UTC.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Nullable<DateTime> GetDateTimeFromNodeUTC(  this XElement xCurrentElement,  string strElementName ) |

#### Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The x current element.

strElementName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string element.

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetDirectoryInfoFromNode Method

Gets the directory information from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static DirectoryInfo GetDirectoryInfoFromNode(  this XElement xCurrentElement,  string strElementName,  DirectoryInfo diDefault ) |

#### Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The x current element.

strElementName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string element.

diDefault

Type: [System.IO.DirectoryInfo](http://msdn2.microsoft.com/en-us/library/8s2fzb02)

The di default.

#### Return Value

Type: [DirectoryInfo](http://msdn2.microsoft.com/en-us/library/8s2fzb02)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetDoubleAttribute Method

Gets the double attribute.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Nullable<double> GetDoubleAttribute(  this XElement eParent,  string strName ) |

#### Parameters

eParent

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The e parent.

strName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string.

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Double](http://msdn2.microsoft.com/en-us/library/643eft0t))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetDoubleFromNode Method

Gets the double from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Nullable<double> GetDoubleFromNode(  this XElement xCurrentElement,  string strElementName ) |

#### Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The x current element.

strElementName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string element.

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Double](http://msdn2.microsoft.com/en-us/library/643eft0t))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetDoubleFromNodeComma Method

Gets the double from node comma.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Nullable<double> GetDoubleFromNodeComma(  this XElement xCurrentElement,  string strElementName ) |

#### Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The x current element.

strElementName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string element.

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Double](http://msdn2.microsoft.com/en-us/library/643eft0t))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetDoubleFromNodePoint Method

Gets the double from node point.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Nullable<double> GetDoubleFromNodePoint(  this XElement xCurrentElement,  string strElementName ) |

#### Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The x current element.

strElementName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string element.

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Double](http://msdn2.microsoft.com/en-us/library/643eft0t))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetEnumFromNode(T) Method

Gets the enum from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static T GetEnumFromNode<T>(  this XElement xCurrentElement,  string strElementName,  T tDefault ) |

#### Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The x current element.

strElementName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string element.

tDefault

Type: **T**

The t default.

#### Type Parameters

T

#### Return Value

Type: **T**

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetFileInfoFromNode Method

Gets the file information from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static FileInfo GetFileInfoFromNode(  this XElement xCurrentElement,  string strElementName,  FileInfo fiDefault ) |

#### Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The x current element.

strElementName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string element.

fiDefault

Type: [System.IO.FileInfo](http://msdn2.microsoft.com/en-us/library/akth6b1k)

The fi default.

#### Return Value

Type: [FileInfo](http://msdn2.microsoft.com/en-us/library/akth6b1k)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetGuidFromNode Method

Gets the unique identifier from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Nullable<Guid> GetGuidFromNode(  this XElement xCurrentElement,  string strElementName ) |

#### Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The x current element.

strElementName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string element.

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Guid](http://msdn2.microsoft.com/en-us/library/cey1zx63))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetInt32Attribute Method

Gets the int32 attribute.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Nullable<int> GetInt32Attribute(  this XElement eParent,  string strName ) |

#### Parameters

eParent

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The e parent.

strName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string.

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetInt32FromNode Method

Gets the int32 from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Nullable<int> GetInt32FromNode(  this XElement xCurrentElement,  string strElementName ) |

#### Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The x current element.

strElementName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string element.

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetInt64Attribute Method

Gets the int64 attribute.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Nullable<long> GetInt64Attribute(  this XElement eParent,  string strName ) |

#### Parameters

eParent

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The e parent.

strName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string.

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Int64](http://msdn2.microsoft.com/en-us/library/6yy583ek))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetLongFromNode Method

Gets the long from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Nullable<long> GetLongFromNode(  this XElement xCurrentElement,  string strElementName ) |

#### Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The be current element.

strElementName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the STR element.

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Int64](http://msdn2.microsoft.com/en-us/library/6yy583ek))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetProperty(T) Method

Gets the property.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static T GetProperty<T>(  this XElement eParent,  string strElementName,  T tDefault ) |

#### Parameters

eParent

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The e parent.

strElementName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string element.

tDefault

Type: **T**

The t default.

#### Type Parameters

T

#### Return Value

Type: **T**

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## Exceptions

|  |  |
| --- | --- |
| Exception | Condition |
| [NotSupportedException](http://msdn2.microsoft.com/en-us/library/8a7a4e64) |  |

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetSingleAttribute Method

Gets the single attribute.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Nullable<float> GetSingleAttribute(  this XElement eParent,  string strName ) |

#### Parameters

eParent

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The e parent.

strName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string.

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Single](http://msdn2.microsoft.com/en-us/library/3www918f))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetSingleFromNode Method

Gets the single from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Nullable<float> GetSingleFromNode(  this XElement xCurrentElement,  string strElementName ) |

#### Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The x current element.

strElementName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string element.

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Single](http://msdn2.microsoft.com/en-us/library/3www918f))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetSingleFromNodeComma Method

Gets the single from node comma.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Nullable<float> GetSingleFromNodeComma(  this XElement xCurrentElement,  string strElementName ) |

#### Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The x current element.

strElementName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string element.

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Single](http://msdn2.microsoft.com/en-us/library/3www918f))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetSingleFromNodePoint Method

Gets the single from node point.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Nullable<float> GetSingleFromNodePoint(  this XElement xCurrentElement,  string strElementName ) |

#### Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The x current element.

strElementName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string element.

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Single](http://msdn2.microsoft.com/en-us/library/3www918f))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetStringAttribute Method

Gets the string attribute.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string GetStringAttribute(  this XElement eParent,  string strName ) |

#### Parameters

eParent

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The e parent.

strName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetStringFromCData Method

Liefert den ersten CData Eintrag des Knotens wenn einer vorhanden ist.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string GetStringFromCData(  this XElement xCurrentElement,  string strElementName ) |

#### Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

strElementName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetStringFromNode Method

## Overload List

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [GetStringFromNode(XElement, String)](#_E32C0942_Topic) | Gets the string from node. |
| Public methodStatic member | [GetStringFromNode(XElement, String, String)](#_99FA43A5_Topic) | Gets the string from node. |

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetStringFromNode Method (XElement, String)

Gets the string from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string GetStringFromNode(  this XElement xCurrentElement,  string strElementName ) |

#### Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The be current element.

strElementName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the STR element.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[GetStringFromNode Overload](#_9476E8C9_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetStringFromNode Method (XElement, String, String)

Gets the string from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string GetStringFromNode(  this XElement xCurrentElement,  string strNamespace,  string strElementName ) |

#### Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The be current element.

strNamespace

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The STR namespace.

strElementName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the STR element.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[GetStringFromNode Overload](#_9476E8C9_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetUInt32Attribute Method

Gets the u int32 attribute.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Nullable<uint> GetUInt32Attribute(  this XElement eParent,  string strName ) |

#### Parameters

eParent

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The e parent.

strName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string.

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([UInt32](http://msdn2.microsoft.com/en-us/library/ctys3981))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetUInt32FromNode Method

Gets the u int32 from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Nullable<uint> GetUInt32FromNode(  this XElement xCurrentElement,  string strElementName ) |

#### Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The x current element.

strElementName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string element.

#### Return Value

Type: [Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([UInt32](http://msdn2.microsoft.com/en-us/library/ctys3981))

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.GetXElement Method

Gets the x element.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static XElement GetXElement(  string strPropertyName,  Object o ) |

#### Parameters

strPropertyName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string property.

o

Type: [System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)

The o.

#### Return Value

Type: [XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.SaveDefault Method

Speichert einen XML Baum mit den Standardoptionen.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void SaveDefault(  this XElement element,  string strOutputFilename ) |

#### Parameters

element

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

strOutputFilename

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# XElementExtension.ToDefaultString Method

To the default string.

**Namespace:** [SIGENCEScenarioTool.Extensions](#_E60D5B43_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string ToDefaultString(  this XElement element ) |

#### Parameters

element

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The element.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](http://msdn2.microsoft.com/en-us/library/bb340098). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[XElementExtension Class](#_69AF9305_Topic)

[SIGENCEScenarioTool.Extensions Namespace](#_E60D5B43_Topic)

# SIGENCEScenarioTool.Interfaces Namespace

## Interfaces

|  |  |  |
| --- | --- | --- |
|  | Interface | Description |
| Public interface | [IXmlExport](#_7A6C2FDF_Topic) |  |

# IXmlExport Interface

**Namespace:** [SIGENCEScenarioTool.Interfaces](#_E7EF6D2E_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public interface IXmlExport |

The **IXmlExport** type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [ToXml](#_106F9F90_Topic) | To the XML. |

## See Also

[SIGENCEScenarioTool.Interfaces Namespace](#_E7EF6D2E_Topic)

# IXmlExport.IXmlExport Methods

The [IXmlExport](#_7A6C2FDF_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [ToXml](#_106F9F90_Topic) | To the XML. |

## See Also

[IXmlExport Interface](#_7A6C2FDF_Topic)

[SIGENCEScenarioTool.Interfaces Namespace](#_E7EF6D2E_Topic)

# IXmlExport.ToXml Method

To the XML.

**Namespace:** [SIGENCEScenarioTool.Interfaces](#_E7EF6D2E_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| XElement ToXml() |

#### Return Value

Type: [XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

## See Also

[IXmlExport Interface](#_7A6C2FDF_Topic)

[SIGENCEScenarioTool.Interfaces Namespace](#_E7EF6D2E_Topic)

# SIGENCEScenarioTool.Models Namespace

## Classes

|  |  |  |
| --- | --- | --- |
|  | Class | Description |
| Public class | [AbstractModelBase](#_B5310C8C_Topic) |  |
| Public class | [GeoLocalizationResult](#_11F85B0B_Topic) | Represent The Geo Localization Result Of A RFDevice. |
| Public class | [GeoLocalizationResultList](#_F43157A0_Topic) |  |
| Public class | [RFDevice](#_7886E387_Topic) | Represent A Device Based On A Radio Frequency. |
| Public class | [RFDeviceExtensions](#_3FDAE982_Topic) | Represent A Device Based On A Radio Frequency. |
| Public class | [RFDeviceList](#_C9DFBBDF_Topic) |  |
| Public class | [RFDeviceTooltips](#_4CBA3D87_Topic) | The tooltips for our properties to display in the HMI. |

## Enumerations

|  |  |  |
| --- | --- | --- |
|  | Enumeration | Description |
| Public enumeration | [AntennaType](#_30813101_Topic) |  |
| Public enumeration | [DeviceSource](#_93B85C6C_Topic) |  |
| Public enumeration | [DeviceType](#_1648115_Topic) |  |
| Public enumeration | [Servity](#_F41516A6_Topic) |  |

# AbstractModelBase Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Models.AbstractModelBase  
    [SIGENCEScenarioTool.Models.GeoLocalizationResult](#_11F85B0B_Topic)  
    [SIGENCEScenarioTool.Models.RFDevice](#_7886E387_Topic)

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public abstract class AbstractModelBase : INotifyPropertyChanged |

The **AbstractModelBase** type exposes the following members.

## Constructors

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Protected method | [AbstractModelBase](#_8B717334_Topic) | Initializes a new instance of the **AbstractModelBase** class |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Protected method | [Finalize](http://msdn2.microsoft.com/en-us/library/4k87zsw7) | Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Protected method | [FirePropertyChanged](#_BF6DEA86_Topic) | Fires the property changed. |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Protected method | [MemberwiseClone](http://msdn2.microsoft.com/en-us/library/57ctke0a) | Creates a shallow copy of the current [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b). (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |

## Events

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public event | [PropertyChanged](#_631FF3B_Topic) |  |

## See Also

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

[System.ComponentModel.INotifyPropertyChanged](http://msdn2.microsoft.com/en-us/library/ms133020)

# AbstractModelBase Constructor

Initializes a new instance of the [AbstractModelBase](#_B5310C8C_Topic) class

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| protected AbstractModelBase() |

## See Also

[AbstractModelBase Class](#_B5310C8C_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# AbstractModelBase.AbstractModelBase Methods

The [AbstractModelBase](#_B5310C8C_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Protected method | [Finalize](http://msdn2.microsoft.com/en-us/library/4k87zsw7) | Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Protected method | [FirePropertyChanged](#_BF6DEA86_Topic) | Fires the property changed. |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Protected method | [MemberwiseClone](http://msdn2.microsoft.com/en-us/library/57ctke0a) | Creates a shallow copy of the current [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b). (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |

## See Also

[AbstractModelBase Class](#_B5310C8C_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# AbstractModelBase.FirePropertyChanged Method

Fires the property changed.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| protected void FirePropertyChanged(  string strPropertyName = null ) |

#### Parameters

strPropertyName (Optional)

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string property.

## See Also

[AbstractModelBase Class](#_B5310C8C_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# AbstractModelBase.AbstractModelBase Events

The [AbstractModelBase](#_B5310C8C_Topic) type exposes the following members.

## Events

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public event | [PropertyChanged](#_631FF3B_Topic) |  |

## See Also

[AbstractModelBase Class](#_B5310C8C_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# AbstractModelBase.PropertyChanged Event

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public event PropertyChangedEventHandler PropertyChanged |

#### Value

Type: [System.ComponentModel.PropertyChangedEventHandler](http://msdn2.microsoft.com/en-us/library/hyza7z75)

#### Implements

[INotifyPropertyChanged.PropertyChanged](http://msdn2.microsoft.com/en-us/library/ms133023)

## See Also

[AbstractModelBase Class](#_B5310C8C_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# AntennaType Enumeration

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public enum AntennaType |

## Members

|  |  |  |  |
| --- | --- | --- | --- |
|  | Member name | Value | Description |
|  | **OmniDirectional** | 0 |  |
|  | **OmniLOG30800** | 1 |  |
|  | **HyperLOG60200** | 2 |  |
|  | **SimradArgusRadar** | 3 |  |
|  | **Unknown** | 255 |  |

## See Also

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# DeviceSource Enumeration

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public enum DeviceSource |

## Members

|  |  |  |  |
| --- | --- | --- | --- |
|  | Member name | Value | Description |
|  | **Unknown** | 0 | The source of the device is unknown |
|  | **User** | 1 | The device was created by the user |
|  | **Automatic** | 2 | The device was automatically generated |
|  | **DataImport** | 3 | The device comes from a data import |
|  | **SimulationResult** | 4 | The device comes from a simulation result |

## See Also

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# DeviceType Enumeration

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public enum DeviceType |

## Members

|  |  |  |  |
| --- | --- | --- | --- |
|  | Member name | Value | Description |
|  | **Unknown** | 0 | Unknown DeviceType |
|  | **Receiver** | 1 | Receiver |
|  | **Transmitter** | 2 | Transmitter |
|  | **Reference** | 3 | Reference Transmitter |

## See Also

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult Class

Represent The Geo Localization Result Of A RFDevice.

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  [SIGENCEScenarioTool.Models.AbstractModelBase](#_B5310C8C_Topic)  
    SIGENCEScenarioTool.Models.GeoLocalizationResult

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public sealed class GeoLocalizationResult : AbstractModelBase,   IEquatable<GeoLocalizationResult>, ICloneable, IXmlExport |

The **GeoLocalizationResult** type exposes the following members.

## Constructors

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [GeoLocalizationResult](#_4303436_Topic) | Initializes a new instance of the **GeoLocalizationResult** class |

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Altitude](#_76081002_Topic) | The Elevation Of The Localized RF Device Above The Sea Level (Meter). |
| Public property | [Id](#_536421BD_Topic) | The Id Of The Localized RFDevice. |
| Public property | [Latitude](#_966F0F53_Topic) | The Latitude Of The Localized RF Device (WGS84). |
| Public property | [LocalizationTime](#_F86913B3_Topic) | The Localization Time. |
| Public property | [Longitude](#_5184CB9F_Topic) | The Longitude Of The Localized RF Device (WGS84). |
| Public property | [PrimaryKey](#_18862557_Topic) | The Unique PrimarKey For This Result. |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Clone](#_923A8DE_Topic) |  |
| Public method | [Equals(Object)](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [Equals(GeoLocalizationResult)](#_22617A72_Topic) |  |
| Public methodStatic member | [FromXml](#_89E1F14B_Topic) |  |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [ToXml](#_CB84B0C_Topic) |  |

## Events

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public event | [PropertyChanged](#_631FF3B_Topic) | (Inherited from [AbstractModelBase](#_B5310C8C_Topic).) |

## Fields

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public fieldStatic member | [ALTITUDE](#_19B04123_Topic) | The PropertyName As ReadOnly String For Altitude. |
| Public fieldStatic member | [DEFAULT\_ALTITUDE](#_433F09A4_Topic) | The DefaultValue For Altitude. |
| Public fieldStatic member | [DEFAULT\_ID](#_A4CDD20E_Topic) | The DefaultValue For Id. |
| Public fieldStatic member | [DEFAULT\_LATITUDE](#_97480811_Topic) | The DefaultValue For Latitude. |
| Public fieldStatic member | [DEFAULT\_LOCALIZATIONTIME](#_C839ECB3_Topic) | The DefaultValue For LocalizationTime. |
| Public fieldStatic member | [DEFAULT\_LONGITUDE](#_22CE31F1_Topic) | The DefaultValue For Longitude. |
| Public fieldStatic member | [DEFAULT\_PRIMARYKEY](#_B378B755_Topic) | The DefaultValue For PrimaryKey. |
| Public fieldStatic member | [ID](#_9EA32AFF_Topic) | The PropertyName As ReadOnly String For Id. |
| Public fieldStatic member | [LATITUDE](#_3A174108_Topic) | The PropertyName As ReadOnly String For Latitude. |
| Public fieldStatic member | [LOCALIZATIONTIME](#_BDA9FE40_Topic) | The PropertyName As ReadOnly String For LocalizationTime. |
| Public fieldStatic member | [LONGITUDE](#_F4A0FCC6_Topic) | The PropertyName As ReadOnly String For Longitude. |
| Public fieldStatic member | [PRIMARYKEY](#_6AA7600_Topic) | The PropertyName As ReadOnly String For PrimaryKey. |

## See Also

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult Constructor

Initializes a new instance of the [GeoLocalizationResult](#_11F85B0B_Topic) class

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public GeoLocalizationResult() |

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.GeoLocalizationResult Properties

The [GeoLocalizationResult](#_11F85B0B_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Altitude](#_76081002_Topic) | The Elevation Of The Localized RF Device Above The Sea Level (Meter). |
| Public property | [Id](#_536421BD_Topic) | The Id Of The Localized RFDevice. |
| Public property | [Latitude](#_966F0F53_Topic) | The Latitude Of The Localized RF Device (WGS84). |
| Public property | [LocalizationTime](#_F86913B3_Topic) | The Localization Time. |
| Public property | [Longitude](#_5184CB9F_Topic) | The Longitude Of The Localized RF Device (WGS84). |
| Public property | [PrimaryKey](#_18862557_Topic) | The Unique PrimarKey For This Result. |

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.Altitude Property

The Elevation Of The Localized RF Device Above The Sea Level (Meter).

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public uint Altitude { get; set; } |

#### Property Value

Type: [UInt32](http://msdn2.microsoft.com/en-us/library/ctys3981)

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.Id Property

The Id Of The Localized RFDevice.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public int Id { get; set; } |

#### Property Value

Type: [Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.Latitude Property

The Latitude Of The Localized RF Device (WGS84).

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public double Latitude { get; set; } |

#### Property Value

Type: [Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.LocalizationTime Property

The Localization Time.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public double LocalizationTime { get; set; } |

#### Property Value

Type: [Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.Longitude Property

The Longitude Of The Localized RF Device (WGS84).

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public double Longitude { get; set; } |

#### Property Value

Type: [Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.PrimaryKey Property

The Unique PrimarKey For This Result.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public Guid PrimaryKey { get; set; } |

#### Property Value

Type: [Guid](http://msdn2.microsoft.com/en-us/library/cey1zx63)

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.GeoLocalizationResult Methods

The [GeoLocalizationResult](#_11F85B0B_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Clone](#_923A8DE_Topic) |  |
| Public method | [Equals(Object)](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [Equals(GeoLocalizationResult)](#_22617A72_Topic) |  |
| Public methodStatic member | [FromXml](#_89E1F14B_Topic) |  |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [ToXml](#_CB84B0C_Topic) |  |

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.Clone Method

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public GeoLocalizationResult Clone() |

#### Return Value

Type: [GeoLocalizationResult](#_11F85B0B_Topic)

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.Equals Method

## Overload List

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals(Object)](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [Equals(GeoLocalizationResult)](#_22617A72_Topic) |  |

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.Equals Method (GeoLocalizationResult)

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public bool Equals(  GeoLocalizationResult other ) |

#### Parameters

other

Type: [SIGENCEScenarioTool.Models.GeoLocalizationResult](#_11F85B0B_Topic)

#### Return Value

Type: [Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)

#### Implements

[IEquatable(T).Equals(T)](http://msdn2.microsoft.com/en-us/library/ms131190)

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[Equals Overload](#_F1C1C3B0_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.FromXml Method

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static GeoLocalizationResult FromXml(  XElement eRoot ) |

#### Parameters

eRoot

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

#### Return Value

Type: [GeoLocalizationResult](#_11F85B0B_Topic)

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.ToXml Method

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public XElement ToXml() |

#### Return Value

Type: [XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

#### Implements

[IXmlExport.ToXml()](#_106F9F90_Topic)

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.GeoLocalizationResult Events

The [GeoLocalizationResult](#_11F85B0B_Topic) type exposes the following members.

## Events

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public event | [PropertyChanged](#_631FF3B_Topic) | (Inherited from [AbstractModelBase](#_B5310C8C_Topic).) |

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.GeoLocalizationResult Fields

The [GeoLocalizationResult](#_11F85B0B_Topic) type exposes the following members.

## Fields

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public fieldStatic member | [ALTITUDE](#_19B04123_Topic) | The PropertyName As ReadOnly String For Altitude. |
| Public fieldStatic member | [DEFAULT\_ALTITUDE](#_433F09A4_Topic) | The DefaultValue For Altitude. |
| Public fieldStatic member | [DEFAULT\_ID](#_A4CDD20E_Topic) | The DefaultValue For Id. |
| Public fieldStatic member | [DEFAULT\_LATITUDE](#_97480811_Topic) | The DefaultValue For Latitude. |
| Public fieldStatic member | [DEFAULT\_LOCALIZATIONTIME](#_C839ECB3_Topic) | The DefaultValue For LocalizationTime. |
| Public fieldStatic member | [DEFAULT\_LONGITUDE](#_22CE31F1_Topic) | The DefaultValue For Longitude. |
| Public fieldStatic member | [DEFAULT\_PRIMARYKEY](#_B378B755_Topic) | The DefaultValue For PrimaryKey. |
| Public fieldStatic member | [ID](#_9EA32AFF_Topic) | The PropertyName As ReadOnly String For Id. |
| Public fieldStatic member | [LATITUDE](#_3A174108_Topic) | The PropertyName As ReadOnly String For Latitude. |
| Public fieldStatic member | [LOCALIZATIONTIME](#_BDA9FE40_Topic) | The PropertyName As ReadOnly String For LocalizationTime. |
| Public fieldStatic member | [LONGITUDE](#_F4A0FCC6_Topic) | The PropertyName As ReadOnly String For Longitude. |
| Public fieldStatic member | [PRIMARYKEY](#_6AA7600_Topic) | The PropertyName As ReadOnly String For PrimaryKey. |

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.ALTITUDE Field

The PropertyName As ReadOnly String For Altitude.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string ALTITUDE = "Altitude" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.DEFAULT\_ALTITUDE Field

The DefaultValue For Altitude.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly uint DEFAULT\_ALTITUDE |

#### Field Value

Type: [UInt32](http://msdn2.microsoft.com/en-us/library/ctys3981)

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.DEFAULT\_ID Field

The DefaultValue For Id.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly int DEFAULT\_ID |

#### Field Value

Type: [Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.DEFAULT\_LATITUDE Field

The DefaultValue For Latitude.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly double DEFAULT\_LATITUDE |

#### Field Value

Type: [Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.DEFAULT\_LOCALIZATIONTIME Field

The DefaultValue For LocalizationTime.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly double DEFAULT\_LOCALIZATIONTIME |

#### Field Value

Type: [Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.DEFAULT\_LONGITUDE Field

The DefaultValue For Longitude.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly double DEFAULT\_LONGITUDE |

#### Field Value

Type: [Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.DEFAULT\_PRIMARYKEY Field

The DefaultValue For PrimaryKey.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly Guid DEFAULT\_PRIMARYKEY |

#### Field Value

Type: [Guid](http://msdn2.microsoft.com/en-us/library/cey1zx63)

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.ID Field

The PropertyName As ReadOnly String For Id.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string ID = "Id" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.LATITUDE Field

The PropertyName As ReadOnly String For Latitude.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string LATITUDE = "Latitude" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.LOCALIZATIONTIME Field

The PropertyName As ReadOnly String For LocalizationTime.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string LOCALIZATIONTIME = "LocalizationTime" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.LONGITUDE Field

The PropertyName As ReadOnly String For Longitude.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string LONGITUDE = "Longitude" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResult.PRIMARYKEY Field

The PropertyName As ReadOnly String For PrimaryKey.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string PRIMARYKEY = "PrimaryKey" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[GeoLocalizationResult Class](#_11F85B0B_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResultList Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  [System.Collections.Generic.List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic))  
    SIGENCEScenarioTool.Models.GeoLocalizationResultList

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public sealed class GeoLocalizationResultList : List<GeoLocalizationResult> |

The **GeoLocalizationResultList** type exposes the following members.

## Constructors

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [GeoLocalizationResultList()](#_3D634A9F_Topic) | Initializes a new instance of the **GeoLocalizationResultList** class. |
| Public method | [GeoLocalizationResultList(Int32)](#_122EAAE4_Topic) | Initializes a new instance of the **GeoLocalizationResultList** class. |
| Public method | [GeoLocalizationResultList(IEnumerable(GeoLocalizationResult))](#_1231AAE4_Topic) | Initializes a new instance of the **GeoLocalizationResultList** class. |

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Capacity](http://msdn2.microsoft.com/en-us/library/y52x03h2) | Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public property | [Count](http://msdn2.microsoft.com/en-us/library/27b47ht3) | Gets the number of elements contained in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public property | [Item](http://msdn2.microsoft.com/en-us/library/0ebtbkkc) | Gets or sets the element at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Add](http://msdn2.microsoft.com/en-us/library/3wcytfd1) | Adds an object to the end of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [AddRange](http://msdn2.microsoft.com/en-us/library/z883w3dc) | Adds the elements of the specified collection to the end of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [AsReadOnly](http://msdn2.microsoft.com/en-us/library/e78dcd75) | Returns a read-only [IList(T)](http://msdn2.microsoft.com/en-us/library/5y536ey6) wrapper for the current collection. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [BinarySearch(T)](http://msdn2.microsoft.com/en-us/library/w4e7fxsh) | Searches the entire sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the default comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [BinarySearch(T, IComparer(T))](http://msdn2.microsoft.com/en-us/library/ftfdbfx6) | Searches the entire sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the specified comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [BinarySearch(Int32, Int32, T, IComparer(T))](http://msdn2.microsoft.com/en-us/library/a1s5syxa) | Searches a range of elements in the sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the specified comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [Clear](http://msdn2.microsoft.com/en-us/library/dwb5h52a) | Removes all elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [Contains](http://msdn2.microsoft.com/en-us/library/bhkz42b3) | Determines whether an element is in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [ConvertAll(TOutput)](http://msdn2.microsoft.com/en-us/library/73fe8cwf) | Converts the elements in the current [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to another type, and returns a list containing the converted elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [CopyTo(T[])](http://msdn2.microsoft.com/en-us/library/t69dktcd) | Copies the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the beginning of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [CopyTo(T[], Int32)](http://msdn2.microsoft.com/en-us/library/4df7xky9) | Copies the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [CopyTo(Int32,T[], Int32, Int32)](http://msdn2.microsoft.com/en-us/library/3eb2b9x8) | Copies a range of elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [Exists](http://msdn2.microsoft.com/en-us/library/bfed8bca) | Determines whether the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) contains elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [Find](http://msdn2.microsoft.com/en-us/library/x0b5b5bc) | Searches for an element that matches the conditions defined by the specified predicate, and returns the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [FindAll](http://msdn2.microsoft.com/en-us/library/fh1w7y8z) | Retrieves all the elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [FindIndex(Predicate(T))](http://msdn2.microsoft.com/en-us/library/x1xzf2ca) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [FindIndex(Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/efasdh0s) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the specified index to the last element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [FindIndex(Int32, Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/7eb596wz) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that starts at the specified index and contains the specified number of elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [FindLast](http://msdn2.microsoft.com/en-us/library/5kthb929) | Searches for an element that matches the conditions defined by the specified predicate, and returns the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [FindLastIndex(Predicate(T))](http://msdn2.microsoft.com/en-us/library/xzs5503w) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [FindLastIndex(Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/0b9t5061) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the first element to the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [FindLastIndex(Int32, Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/860a771k) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that contains the specified number of elements and ends at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [ForEach](http://msdn2.microsoft.com/en-us/library/bwabdf9z) | Performs the specified action on each element of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [GetEnumerator](http://msdn2.microsoft.com/en-us/library/b0yss765) | Returns an enumerator that iterates through the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetRange](http://msdn2.microsoft.com/en-us/library/21k0e39c) | Creates a shallow copy of a range of elements in the source [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IndexOf(T)](http://msdn2.microsoft.com/en-us/library/e4w08k17) | Searches for the specified object and returns the zero-based index of the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [IndexOf(T, Int32)](http://msdn2.microsoft.com/en-us/library/s8t42k5w) | Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the specified index to the last element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [IndexOf(T, Int32, Int32)](http://msdn2.microsoft.com/en-us/library/dy8zse0c) | Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that starts at the specified index and contains the specified number of elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [Insert](http://msdn2.microsoft.com/en-us/library/sey5k5z4) | Inserts an element into the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [InsertRange](http://msdn2.microsoft.com/en-us/library/884ee1fz) | Inserts the elements of a collection into the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [LastIndexOf(T)](http://msdn2.microsoft.com/en-us/library/dsxfcba1) | Searches for the specified object and returns the zero-based index of the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [LastIndexOf(T, Int32)](http://msdn2.microsoft.com/en-us/library/s088xd6w) | Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the first element to the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [LastIndexOf(T, Int32, Int32)](http://msdn2.microsoft.com/en-us/library/haast0bw) | Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that contains the specified number of elements and ends at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [Remove](http://msdn2.microsoft.com/en-us/library/cd666k3e) | Removes the first occurrence of a specific object from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [RemoveAll](http://msdn2.microsoft.com/en-us/library/wdka673a) | Removes all the elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [RemoveAt](http://msdn2.microsoft.com/en-us/library/5cw9x18z) | Removes the element at the specified index of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [RemoveRange](http://msdn2.microsoft.com/en-us/library/y33yd2b5) | Removes a range of elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [Reverse()](http://msdn2.microsoft.com/en-us/library/b0axc2h2) | Reverses the order of the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [Reverse(Int32, Int32)](http://msdn2.microsoft.com/en-us/library/hf2ay11y) | Reverses the order of the elements in the specified range. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [Sort()](http://msdn2.microsoft.com/en-us/library/b0zbh7b6) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the default comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [Sort(IComparer(T))](http://msdn2.microsoft.com/en-us/library/234b841s) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [Sort(Comparison(T))](http://msdn2.microsoft.com/en-us/library/w56d4y5z) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified [Comparison(T)](http://msdn2.microsoft.com/en-us/library/tfakywbh). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [Sort(Int32, Int32, IComparer(T))](http://msdn2.microsoft.com/en-us/library/8ce6t5ad) | Sorts the elements in a range of elements in [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [ToArray](http://msdn2.microsoft.com/en-us/library/x303t819) | Copies the elements of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a new array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [TrimExcess](http://msdn2.microsoft.com/en-us/library/ms132207) | Sets the capacity to the actual number of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19), if that number is less than a threshold value. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [TrueForAll](http://msdn2.microsoft.com/en-us/library/kdxe4x4w) | Determines whether every element in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) matches the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |

## Extension Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public Extension Method | [SaveAsCsv(GeoLocalizationResult)](#_E6A752FD_Topic) | Saves the list as CSV. (Defined by [ListExtension](#_CD56FF2D_Topic).) |
| Public Extension Method | [SaveAsXml(GeoLocalizationResult)](#_6E561BA7_Topic) | Saves the list as XML. (Defined by [ListExtension](#_CD56FF2D_Topic).) |

## See Also

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResultList Constructor

## Overload List

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [GeoLocalizationResultList()](#_3D634A9F_Topic) | Initializes a new instance of the [GeoLocalizationResultList](#_F43157A0_Topic) class. |
| Public method | [GeoLocalizationResultList(Int32)](#_122EAAE4_Topic) | Initializes a new instance of the [GeoLocalizationResultList](#_F43157A0_Topic) class. |
| Public method | [GeoLocalizationResultList(IEnumerable(GeoLocalizationResult))](#_1231AAE4_Topic) | Initializes a new instance of the [GeoLocalizationResultList](#_F43157A0_Topic) class. |

## See Also

[GeoLocalizationResultList Class](#_F43157A0_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResultList Constructor

Initializes a new instance of the [GeoLocalizationResultList](#_F43157A0_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public GeoLocalizationResultList() |

## See Also

[GeoLocalizationResultList Class](#_F43157A0_Topic)

[GeoLocalizationResultList Overload](#_495A91AC_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResultList Constructor (Int32)

Initializes a new instance of the [GeoLocalizationResultList](#_F43157A0_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public GeoLocalizationResultList(  int iInitialSize ) |

#### Parameters

iInitialSize

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

Initial size of the i.

## See Also

[GeoLocalizationResultList Class](#_F43157A0_Topic)

[GeoLocalizationResultList Overload](#_495A91AC_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResultList Constructor (IEnumerable(GeoLocalizationResult))

Initializes a new instance of the [GeoLocalizationResultList](#_F43157A0_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public GeoLocalizationResultList(  IEnumerable<GeoLocalizationResult> collection ) |

#### Parameters

collection

Type: [System.Collections.Generic.IEnumerable](http://msdn2.microsoft.com/en-us/library/9eekhta0)([GeoLocalizationResult](#_11F85B0B_Topic))

Die Auflistung, deren Elemente in die neue Liste kopiert werden.

## See Also

[GeoLocalizationResultList Class](#_F43157A0_Topic)

[GeoLocalizationResultList Overload](#_495A91AC_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResultList.GeoLocalizationResultList Properties

The [GeoLocalizationResultList](#_F43157A0_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Capacity](http://msdn2.microsoft.com/en-us/library/y52x03h2) | Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public property | [Count](http://msdn2.microsoft.com/en-us/library/27b47ht3) | Gets the number of elements contained in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public property | [Item](http://msdn2.microsoft.com/en-us/library/0ebtbkkc) | Gets or sets the element at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |

## See Also

[GeoLocalizationResultList Class](#_F43157A0_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# GeoLocalizationResultList.GeoLocalizationResultList Methods

The [GeoLocalizationResultList](#_F43157A0_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Add](http://msdn2.microsoft.com/en-us/library/3wcytfd1) | Adds an object to the end of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [AddRange](http://msdn2.microsoft.com/en-us/library/z883w3dc) | Adds the elements of the specified collection to the end of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [AsReadOnly](http://msdn2.microsoft.com/en-us/library/e78dcd75) | Returns a read-only [IList(T)](http://msdn2.microsoft.com/en-us/library/5y536ey6) wrapper for the current collection. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [BinarySearch(T)](http://msdn2.microsoft.com/en-us/library/w4e7fxsh) | Searches the entire sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the default comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [BinarySearch(T, IComparer(T))](http://msdn2.microsoft.com/en-us/library/ftfdbfx6) | Searches the entire sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the specified comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [BinarySearch(Int32, Int32, T, IComparer(T))](http://msdn2.microsoft.com/en-us/library/a1s5syxa) | Searches a range of elements in the sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the specified comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [Clear](http://msdn2.microsoft.com/en-us/library/dwb5h52a) | Removes all elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [Contains](http://msdn2.microsoft.com/en-us/library/bhkz42b3) | Determines whether an element is in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [ConvertAll(TOutput)](http://msdn2.microsoft.com/en-us/library/73fe8cwf) | Converts the elements in the current [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to another type, and returns a list containing the converted elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [CopyTo(T[])](http://msdn2.microsoft.com/en-us/library/t69dktcd) | Copies the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the beginning of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [CopyTo(T[], Int32)](http://msdn2.microsoft.com/en-us/library/4df7xky9) | Copies the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [CopyTo(Int32,T[], Int32, Int32)](http://msdn2.microsoft.com/en-us/library/3eb2b9x8) | Copies a range of elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [Exists](http://msdn2.microsoft.com/en-us/library/bfed8bca) | Determines whether the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) contains elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [Find](http://msdn2.microsoft.com/en-us/library/x0b5b5bc) | Searches for an element that matches the conditions defined by the specified predicate, and returns the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [FindAll](http://msdn2.microsoft.com/en-us/library/fh1w7y8z) | Retrieves all the elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [FindIndex(Predicate(T))](http://msdn2.microsoft.com/en-us/library/x1xzf2ca) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [FindIndex(Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/efasdh0s) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the specified index to the last element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [FindIndex(Int32, Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/7eb596wz) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that starts at the specified index and contains the specified number of elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [FindLast](http://msdn2.microsoft.com/en-us/library/5kthb929) | Searches for an element that matches the conditions defined by the specified predicate, and returns the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [FindLastIndex(Predicate(T))](http://msdn2.microsoft.com/en-us/library/xzs5503w) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [FindLastIndex(Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/0b9t5061) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the first element to the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [FindLastIndex(Int32, Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/860a771k) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that contains the specified number of elements and ends at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [ForEach](http://msdn2.microsoft.com/en-us/library/bwabdf9z) | Performs the specified action on each element of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [GetEnumerator](http://msdn2.microsoft.com/en-us/library/b0yss765) | Returns an enumerator that iterates through the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetRange](http://msdn2.microsoft.com/en-us/library/21k0e39c) | Creates a shallow copy of a range of elements in the source [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IndexOf(T)](http://msdn2.microsoft.com/en-us/library/e4w08k17) | Searches for the specified object and returns the zero-based index of the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [IndexOf(T, Int32)](http://msdn2.microsoft.com/en-us/library/s8t42k5w) | Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the specified index to the last element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [IndexOf(T, Int32, Int32)](http://msdn2.microsoft.com/en-us/library/dy8zse0c) | Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that starts at the specified index and contains the specified number of elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [Insert](http://msdn2.microsoft.com/en-us/library/sey5k5z4) | Inserts an element into the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [InsertRange](http://msdn2.microsoft.com/en-us/library/884ee1fz) | Inserts the elements of a collection into the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [LastIndexOf(T)](http://msdn2.microsoft.com/en-us/library/dsxfcba1) | Searches for the specified object and returns the zero-based index of the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [LastIndexOf(T, Int32)](http://msdn2.microsoft.com/en-us/library/s088xd6w) | Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the first element to the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [LastIndexOf(T, Int32, Int32)](http://msdn2.microsoft.com/en-us/library/haast0bw) | Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that contains the specified number of elements and ends at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [Remove](http://msdn2.microsoft.com/en-us/library/cd666k3e) | Removes the first occurrence of a specific object from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [RemoveAll](http://msdn2.microsoft.com/en-us/library/wdka673a) | Removes all the elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [RemoveAt](http://msdn2.microsoft.com/en-us/library/5cw9x18z) | Removes the element at the specified index of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [RemoveRange](http://msdn2.microsoft.com/en-us/library/y33yd2b5) | Removes a range of elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [Reverse()](http://msdn2.microsoft.com/en-us/library/b0axc2h2) | Reverses the order of the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [Reverse(Int32, Int32)](http://msdn2.microsoft.com/en-us/library/hf2ay11y) | Reverses the order of the elements in the specified range. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [Sort()](http://msdn2.microsoft.com/en-us/library/b0zbh7b6) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the default comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [Sort(IComparer(T))](http://msdn2.microsoft.com/en-us/library/234b841s) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [Sort(Comparison(T))](http://msdn2.microsoft.com/en-us/library/w56d4y5z) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified [Comparison(T)](http://msdn2.microsoft.com/en-us/library/tfakywbh). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [Sort(Int32, Int32, IComparer(T))](http://msdn2.microsoft.com/en-us/library/8ce6t5ad) | Sorts the elements in a range of elements in [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [ToArray](http://msdn2.microsoft.com/en-us/library/x303t819) | Copies the elements of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a new array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [TrimExcess](http://msdn2.microsoft.com/en-us/library/ms132207) | Sets the capacity to the actual number of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19), if that number is less than a threshold value. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |
| Public method | [TrueForAll](http://msdn2.microsoft.com/en-us/library/kdxe4x4w) | Determines whether every element in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) matches the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([GeoLocalizationResult](#_11F85B0B_Topic)).) |

## Extension Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public Extension Method | [SaveAsCsv(GeoLocalizationResult)](#_E6A752FD_Topic) | Saves the list as CSV. (Defined by [ListExtension](#_CD56FF2D_Topic).) |
| Public Extension Method | [SaveAsXml(GeoLocalizationResult)](#_6E561BA7_Topic) | Saves the list as XML. (Defined by [ListExtension](#_CD56FF2D_Topic).) |

## See Also

[GeoLocalizationResultList Class](#_F43157A0_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice Class

Represent A Device Based On A Radio Frequency.

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  [SIGENCEScenarioTool.Models.AbstractModelBase](#_B5310C8C_Topic)  
    SIGENCEScenarioTool.Models.RFDevice

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public sealed class RFDevice : AbstractModelBase,   IEquatable<RFDevice>, ICloneable, IXmlExport |

The **RFDevice** type exposes the following members.

## Constructors

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [RFDevice](#_1341A9D1_Topic) | Initializes a new instance of the **RFDevice** class |

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Altitude](#_7070377_Topic) | The Elevation Of The RF Device Above The Sea Level (Meter). |
| Public property | [AntennaType](#_1A34799E_Topic) | AntennaType Defines The Antenna Type Used For Transmitter And Receiver Respectively. Note: Currently, Only Omnidirectional Antenna Type Is Available / Supported. |
| Public property | [Bandwidth\_Hz](#_2A6D51DF_Topic) | The Bandwith Of The Transmitter. |
| Public property | [CenterFrequency\_Hz](#_C88091BE_Topic) | For Transmitters (I.E. Id’s >= 0) This Parameter Defines Transmitter Signal Center Frequency [Hz]. For Receivers (I.E. Id’s < 0) This Parameter Is Currently Unused. |
| Public property | [DeviceSource](#_84AF726_Topic) | The Source Of This RF Device. |
| Public property | [Gain\_dB](#_3C09479B_Topic) | For Transmitters (I.E. Id’s >= 0) This Parameter Defines Transmitter Signal Power [Dbm]. For Receivers (I.E. Id’s < 0) This Parameter Is Currently Unused. |
| Public property | [Id](#_3927153A_Topic) | Every Scenario Element (I.E. Transmitter, Receiver) Must Be Assigned An Unique Id. Negative Id’S Are Reserved For Receivers While All Other Id’S Are Transmitters By Default. Some Applications (I.E. Tdoa Emitter Localization) Require A Reference Transmitter. For These Applications Id=0 Is The Reference Transmitter. Receivers Must Be Assigned First In The Table, Followed Be Transmitters (With Id=0 Being The First). After The Static Scenario, Update Of Id’S Requires No Specific Order. Note That Definition Of New Transmitters/Receivers After The Static Scenario Is Prohibited. |
| Public property | [Latitude](#_909C2B5E_Topic) | The Latitude Of The RF Device (WGS84). |
| Public property | [Longitude](#_9107DF1B_Topic) | The Longitude Of The RF Device (WGS84). |
| Public property | [Name](#_CE1536AD_Topic) | A Short Describing Display Name For The RF Device. |
| Public property | [Pitch](#_A120FA91_Topic) | These Parameters Set The Orientation Of Transmitter / Receiver Antennas. The Respective Antenna Type Is Defined By Antennatype. The Rf Simulation Uses The Antenna Orientation To Compute The Resulting Signal Power At The Receivers. |
| Public property | [PrimaryKey](#_8FE11BFC_Topic) | The Unique PrimarKey For This RF Device. |
| Public property | [Remark](#_CD570F26_Topic) | A Comment Or Remark For The RF Device. |
| Public property | [Roll](#_2997ADF0_Topic) | These Parameters Set The Orientation Of Transmitter / Receiver Antennas. The Respective Antenna Type Is Defined By Antennatype. The Rf Simulation Uses The Antenna Orientation To Compute The Resulting Signal Power At The Receivers. |
| Public property | [RxTxType](#_F8F99A40_Topic) | For All Receivers (i.e. ID’s < 0) This Parameter Defines The Radio Being Used. |
| Public property | [SignalToNoiseRatio\_dB](#_CFB45E6_Topic) | For Receivers (I.E. Id’s < 0) This Parameter Is Imposes Gaussian White Noise To The Respective Receiver Signal. For Transmitters (I.E. Id’s >= 0) This Parameter Is Unused. |
| Public property | [StartTime](#_663F124C_Topic) | This Is The Simulation Time At Which The Parameters (Following The Time Parameter In The Same Line) Are Set. All Transmitters And Receivers Used In The Simulation Must Be Set At Start Of The Simulation, I.E. At Time=0. For Static Scenarios, Where Positions Or Characteristics Settings Never Change Throughout The Simulation, The Time Column Only Contains Zero’s. |
| Public property | [XPos](#_86CE3BFD_Topic) | XPos,YPos,ZPos Define The Transmitter / Receiver Positions In A Local Coordinate System With The Transmitter (ID=0) Being The Center Position. |
| Public property | [Yaw](#_260CC74A_Topic) | These Parameters Set The Orientation Of Transmitter / Receiver Antennas. The Respective Antenna Type Is Defined By Antennatype. The Rf Simulation Uses The Antenna Orientation To Compute The Resulting Signal Power At The Receivers. |
| Public property | [YPos](#_E426C762_Topic) | XPos,YPos,ZPos Define The Transmitter / Receiver Positions In A Local Coordinate System With The Transmitter (ID=0) Being The Center Position. |
| Public property | [ZPos](#_417F52C7_Topic) | XPos,YPos,ZPos Define The Transmitter / Receiver Positions In A Local Coordinate System With The Transmitter (ID=0) Being The Center Position. |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Clone](#_8B5C23B1_Topic) | Clones this instance. |
| Public method | [Equals(Object)](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [Equals(RFDevice)](#_959A1F7C_Topic) | Gibt an, ob das aktuelle Objekt gleich einem anderen Objekt des gleichen Typs ist. |
| Public methodStatic member | [FromXml](#_13E8C3BE_Topic) | Froms the XML. |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [ToString](#_B7150D0_Topic) | Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance. (Overrides [Object.ToString()](http://msdn2.microsoft.com/en-us/library/7bxwbwt2).) |
| Public method | [ToXml](#_20C20244_Topic) | To the XML. |
| Public method | [Validate](#_FB7427C9_Topic) |  |

## Events

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public event | [PropertyChanged](#_631FF3B_Topic) | (Inherited from [AbstractModelBase](#_B5310C8C_Topic).) |

## Fields

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public fieldStatic member | [ALTITUDE](#_871666FC_Topic) | The PropertyName As ReadOnly String For Altitude. |
| Public fieldStatic member | [ANTENNATYPE](#_E0404E13_Topic) | The PropertyName As ReadOnly String For AntennaType. |
| Public fieldStatic member | [BANDWIDTH\_HZ](#_F91A5AFC_Topic) | The PropertyName As ReadOnly String For Bandwidth\_Hz. |
| Public fieldStatic member | [CENTERFREQUENCY\_HZ](#_36D8A6F8_Topic) | The PropertyName As ReadOnly String For CenterFrequency\_Hz. |
| Public fieldStatic member | [DEFAULT\_ALTITUDE](#_AF51F344_Topic) | The DefaultValue For Altitude. |
| Public fieldStatic member | [DEFAULT\_ANTENNATYPE](#_44E5ED78_Topic) | The DefaultValue For AntennaType. |
| Public fieldStatic member | [DEFAULT\_BANDWIDTH\_HZ](#_84C4C6DB_Topic) | The DefaultValue For Bandwidth\_Hz. |
| Public fieldStatic member | [DEFAULT\_CENTERFREQUENCY\_HZ](#_5095E270_Topic) | The DefaultValue For CenterFrequency\_Hz. |
| Public fieldStatic member | [DEFAULT\_DEVICESOURCE](#_73000D8D_Topic) | The DefaultValue For DeviceSource. |
| Public fieldStatic member | [DEFAULT\_GAIN\_DB](#_B4B65E92_Topic) | The DefaultValue For Gain\_dB. |
| Public fieldStatic member | [DEFAULT\_ID](#_31961989_Topic) | The DefaultValue For Id. |
| Public fieldStatic member | [DEFAULT\_LATITUDE](#_DD3B68AB_Topic) | The DefaultValue For Latitude. |
| Public fieldStatic member | [DEFAULT\_LONGITUDE](#_D8A69DB3_Topic) | The DefaultValue For Longitude. |
| Public fieldStatic member | [DEFAULT\_NAME](#_25B182C3_Topic) | The DefaultValue For Name. |
| Public fieldStatic member | [DEFAULT\_PITCH](#_F7BAA8B8_Topic) | The DefaultValue For Pitch. |
| Public fieldStatic member | [DEFAULT\_PRIMARYKEY](#_EBCEB344_Topic) | The DefaultValue For PrimaryKey. |
| Public fieldStatic member | [DEFAULT\_REMARK](#_9BDF9359_Topic) | The DefaultValue For Remark. |
| Public fieldStatic member | [DEFAULT\_ROLL](#_FAEFC1CE_Topic) | The DefaultValue For Roll. |
| Public fieldStatic member | [DEFAULT\_RXTXTYPE](#_8999AAB1_Topic) | The DefaultValue For RxTxType. |
| Public fieldStatic member | [DEFAULT\_SIGNALTONOISERATIO\_DB](#_AA9BD229_Topic) | The DefaultValue For SignalToNoiseRatio\_dB. |
| Public fieldStatic member | [DEFAULT\_STARTTIME](#_6A068D79_Topic) | The DefaultValue For StartTime. |
| Public fieldStatic member | [DEFAULT\_XPOS](#_6CF47D6F_Topic) | The DefaultValue For XPos. |
| Public fieldStatic member | [DEFAULT\_YAW](#_886B08EC_Topic) | The DefaultValue For Yaw. |
| Public fieldStatic member | [DEFAULT\_YPOS](#_CA4D08D4_Topic) | The DefaultValue For YPos. |
| Public fieldStatic member | [DEFAULT\_ZPOS](#_B24366A5_Topic) | The DefaultValue For ZPos. |
| Public fieldStatic member | [DEVICESOURCE](#_8A3ECF3B_Topic) | The PropertyName As ReadOnly String For DeviceSource. |
| Public fieldStatic member | [GAIN\_DB](#_BC5EA470_Topic) | The PropertyName As ReadOnly String For Gain\_dB. |
| Public fieldStatic member | [ID](#_EE84617B_Topic) | The PropertyName As ReadOnly String For Id. |
| Public fieldStatic member | [LATITUDE](#_10AB8EE3_Topic) | The PropertyName As ReadOnly String For Latitude. |
| Public fieldStatic member | [LONGITUDE](#_12B33C9A_Topic) | The PropertyName As ReadOnly String For Longitude. |
| Public fieldStatic member | [NAME](#_2F1A0AF5_Topic) | The PropertyName As ReadOnly String For Name. |
| Public fieldStatic member | [PITCH](#_229CF09_Topic) | The PropertyName As ReadOnly String For Pitch. |
| Public fieldStatic member | [PRIMARYKEY](#_FF078DF_Topic) | The PropertyName As ReadOnly String For PrimaryKey. |
| Public fieldStatic member | [REMARK](#_2E5BE36E_Topic) | The PropertyName As ReadOnly String For Remark. |
| Public fieldStatic member | [ROLL](#_8A8E8238_Topic) | The PropertyName As ReadOnly String For Roll. |
| Public fieldStatic member | [RXTXTYPE](#_794AFDE5_Topic) | The PropertyName As ReadOnly String For RxTxType. |
| Public fieldStatic member | [SIGNALTONOISERATIO\_DB](#_3AD2A7F8_Topic) | The PropertyName As ReadOnly String For SignalToNoiseRatio\_dB. |
| Public fieldStatic member | [STARTTIME](#_E8B4713F_Topic) | The PropertyName As ReadOnly String For StartTime. |
| Public fieldStatic member | [XPOS](#_E7D71045_Topic) | The PropertyName As ReadOnly String For XPos. |
| Public fieldStatic member | [YAW](#_87139BC2_Topic) | The PropertyName As ReadOnly String For Yaw. |
| Public fieldStatic member | [YPOS](#_452F9BAA_Topic) | The PropertyName As ReadOnly String For YPos. |
| Public fieldStatic member | [ZPOS](#_A288270F_Topic) | The PropertyName As ReadOnly String For ZPos. |

## Extension Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public Extension Method | [WithAltitude](#_DD5D0F5B_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithAntennaType](#_E2FD70FD_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithBandwidth\_Hz](#_AEC2C9E8_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithCenterFrequency\_Hz](#_F231A1D9_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithDeviceSource](#_B7F5B5A6_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithGain\_dB](#_F6B210D_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithId](#_38DA441F_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithLatitude](#_DE880E3E_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithLongitude](#_8BF594B8_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithName](#_C12B4196_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithPitch](#_16005074_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithPrimaryKey](#_C8506DAB_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithRemark](#_9183D6DB_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithRoll](#_4EBECCEF_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithRxTxType](#_F595292C_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithSignalToNoiseRatio\_dB](#_E1029C9F_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithStartTime](#_5CAEAAF7_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithXPos](#_BDB2ABA_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithYaw](#_CABE1943_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithYPos](#_BDB2ABB_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithZPos](#_BDB2AB8_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |

## See Also

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

**[!:System.IEquatable<SIGENCEScenarioTool.Models.RFDevice>]**

[System.ComponentModel.INotifyPropertyChanged](http://msdn2.microsoft.com/en-us/library/ms133020)

[System.ICloneable](http://msdn2.microsoft.com/en-us/library/hdf3zaf2)

[SIGENCEScenarioTool.Interfaces.IXmlExport](#_7A6C2FDF_Topic)

# RFDevice Constructor

Initializes a new instance of the [RFDevice](#_7886E387_Topic) class

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public RFDevice() |

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.RFDevice Properties

The [RFDevice](#_7886E387_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Altitude](#_7070377_Topic) | The Elevation Of The RF Device Above The Sea Level (Meter). |
| Public property | [AntennaType](#_1A34799E_Topic) | AntennaType Defines The Antenna Type Used For Transmitter And Receiver Respectively. Note: Currently, Only Omnidirectional Antenna Type Is Available / Supported. |
| Public property | [Bandwidth\_Hz](#_2A6D51DF_Topic) | The Bandwith Of The Transmitter. |
| Public property | [CenterFrequency\_Hz](#_C88091BE_Topic) | For Transmitters (I.E. Id’s >= 0) This Parameter Defines Transmitter Signal Center Frequency [Hz]. For Receivers (I.E. Id’s < 0) This Parameter Is Currently Unused. |
| Public property | [DeviceSource](#_84AF726_Topic) | The Source Of This RF Device. |
| Public property | [Gain\_dB](#_3C09479B_Topic) | For Transmitters (I.E. Id’s >= 0) This Parameter Defines Transmitter Signal Power [Dbm]. For Receivers (I.E. Id’s < 0) This Parameter Is Currently Unused. |
| Public property | [Id](#_3927153A_Topic) | Every Scenario Element (I.E. Transmitter, Receiver) Must Be Assigned An Unique Id. Negative Id’S Are Reserved For Receivers While All Other Id’S Are Transmitters By Default. Some Applications (I.E. Tdoa Emitter Localization) Require A Reference Transmitter. For These Applications Id=0 Is The Reference Transmitter. Receivers Must Be Assigned First In The Table, Followed Be Transmitters (With Id=0 Being The First). After The Static Scenario, Update Of Id’S Requires No Specific Order. Note That Definition Of New Transmitters/Receivers After The Static Scenario Is Prohibited. |
| Public property | [Latitude](#_909C2B5E_Topic) | The Latitude Of The RF Device (WGS84). |
| Public property | [Longitude](#_9107DF1B_Topic) | The Longitude Of The RF Device (WGS84). |
| Public property | [Name](#_CE1536AD_Topic) | A Short Describing Display Name For The RF Device. |
| Public property | [Pitch](#_A120FA91_Topic) | These Parameters Set The Orientation Of Transmitter / Receiver Antennas. The Respective Antenna Type Is Defined By Antennatype. The Rf Simulation Uses The Antenna Orientation To Compute The Resulting Signal Power At The Receivers. |
| Public property | [PrimaryKey](#_8FE11BFC_Topic) | The Unique PrimarKey For This RF Device. |
| Public property | [Remark](#_CD570F26_Topic) | A Comment Or Remark For The RF Device. |
| Public property | [Roll](#_2997ADF0_Topic) | These Parameters Set The Orientation Of Transmitter / Receiver Antennas. The Respective Antenna Type Is Defined By Antennatype. The Rf Simulation Uses The Antenna Orientation To Compute The Resulting Signal Power At The Receivers. |
| Public property | [RxTxType](#_F8F99A40_Topic) | For All Receivers (i.e. ID’s < 0) This Parameter Defines The Radio Being Used. |
| Public property | [SignalToNoiseRatio\_dB](#_CFB45E6_Topic) | For Receivers (I.E. Id’s < 0) This Parameter Is Imposes Gaussian White Noise To The Respective Receiver Signal. For Transmitters (I.E. Id’s >= 0) This Parameter Is Unused. |
| Public property | [StartTime](#_663F124C_Topic) | This Is The Simulation Time At Which The Parameters (Following The Time Parameter In The Same Line) Are Set. All Transmitters And Receivers Used In The Simulation Must Be Set At Start Of The Simulation, I.E. At Time=0. For Static Scenarios, Where Positions Or Characteristics Settings Never Change Throughout The Simulation, The Time Column Only Contains Zero’s. |
| Public property | [XPos](#_86CE3BFD_Topic) | XPos,YPos,ZPos Define The Transmitter / Receiver Positions In A Local Coordinate System With The Transmitter (ID=0) Being The Center Position. |
| Public property | [Yaw](#_260CC74A_Topic) | These Parameters Set The Orientation Of Transmitter / Receiver Antennas. The Respective Antenna Type Is Defined By Antennatype. The Rf Simulation Uses The Antenna Orientation To Compute The Resulting Signal Power At The Receivers. |
| Public property | [YPos](#_E426C762_Topic) | XPos,YPos,ZPos Define The Transmitter / Receiver Positions In A Local Coordinate System With The Transmitter (ID=0) Being The Center Position. |
| Public property | [ZPos](#_417F52C7_Topic) | XPos,YPos,ZPos Define The Transmitter / Receiver Positions In A Local Coordinate System With The Transmitter (ID=0) Being The Center Position. |

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.Altitude Property

The Elevation Of The RF Device Above The Sea Level (Meter).

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public Altitude Altitude { get; set; } |

#### Property Value

Type: [Altitude](#_6A9A61AE_Topic)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.AntennaType Property

AntennaType Defines The Antenna Type Used For Transmitter And Receiver Respectively. Note: Currently, Only Omnidirectional Antenna Type Is Available / Supported.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public AntennaType AntennaType { get; set; } |

#### Property Value

Type: [AntennaType](#_30813101_Topic)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.Bandwidth\_Hz Property

The Bandwith Of The Transmitter.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public Bandwidth Bandwidth\_Hz { get; set; } |

#### Property Value

Type: [Bandwidth](#_A7A6A49B_Topic)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.CenterFrequency\_Hz Property

For Transmitters (I.E. Id’s >= 0) This Parameter Defines Transmitter Signal Center Frequency [Hz]. For Receivers (I.E. Id’s < 0) This Parameter Is Currently Unused.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public Frequency CenterFrequency\_Hz { get; set; } |

#### Property Value

Type: [Frequency](#_90ACF8AA_Topic)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.DeviceSource Property

The Source Of This RF Device.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public DeviceSource DeviceSource { get; set; } |

#### Property Value

Type: [DeviceSource](#_93B85C6C_Topic)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.Gain\_dB Property

For Transmitters (I.E. Id’s >= 0) This Parameter Defines Transmitter Signal Power [Dbm]. For Receivers (I.E. Id’s < 0) This Parameter Is Currently Unused.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public Gain Gain\_dB { get; set; } |

#### Property Value

Type: [Gain](#_C8F28179_Topic)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.Id Property

Every Scenario Element (I.E. Transmitter, Receiver) Must Be Assigned An Unique Id. Negative Id’S Are Reserved For Receivers While All Other Id’S Are Transmitters By Default. Some Applications (I.E. Tdoa Emitter Localization) Require A Reference Transmitter. For These Applications Id=0 Is The Reference Transmitter. Receivers Must Be Assigned First In The Table, Followed Be Transmitters (With Id=0 Being The First). After The Static Scenario, Update Of Id’S Requires No Specific Order. Note That Definition Of New Transmitters/Receivers After The Static Scenario Is Prohibited.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public int Id { get; set; } |

#### Property Value

Type: [Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.Latitude Property

The Latitude Of The RF Device (WGS84).

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public Latitude Latitude { get; set; } |

#### Property Value

Type: [Latitude](#_6A3D60D3_Topic)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.Longitude Property

The Longitude Of The RF Device (WGS84).

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public Longitude Longitude { get; set; } |

#### Property Value

Type: [Longitude](#_77376669_Topic)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.Name Property

A Short Describing Display Name For The RF Device.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string Name { get; set; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.Pitch Property

These Parameters Set The Orientation Of Transmitter / Receiver Antennas. The Respective Antenna Type Is Defined By Antennatype. The Rf Simulation Uses The Antenna Orientation To Compute The Resulting Signal Power At The Receivers.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public double Pitch { get; set; } |

#### Property Value

Type: [Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.PrimaryKey Property

The Unique PrimarKey For This RF Device.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public Guid PrimaryKey { get; set; } |

#### Property Value

Type: [Guid](http://msdn2.microsoft.com/en-us/library/cey1zx63)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.Remark Property

A Comment Or Remark For The RF Device.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string Remark { get; set; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.Roll Property

These Parameters Set The Orientation Of Transmitter / Receiver Antennas. The Respective Antenna Type Is Defined By Antennatype. The Rf Simulation Uses The Antenna Orientation To Compute The Resulting Signal Power At The Receivers.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public double Roll { get; set; } |

#### Property Value

Type: [Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.RxTxType Property

For All Receivers (i.e. ID’s < 0) This Parameter Defines The Radio Being Used.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public RxTxType RxTxType { get; set; } |

#### Property Value

Type: [RxTxType](#_9F953706_Topic)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.SignalToNoiseRatio\_dB Property

For Receivers (I.E. Id’s < 0) This Parameter Is Imposes Gaussian White Noise To The Respective Receiver Signal. For Transmitters (I.E. Id’s >= 0) This Parameter Is Unused.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public SignalToNoiseRatio SignalToNoiseRatio\_dB { get; set; } |

#### Property Value

Type: [SignalToNoiseRatio](#_9D2108AA_Topic)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.StartTime Property

This Is The Simulation Time At Which The Parameters (Following The Time Parameter In The Same Line) Are Set. All Transmitters And Receivers Used In The Simulation Must Be Set At Start Of The Simulation, I.E. At Time=0. For Static Scenarios, Where Positions Or Characteristics Settings Never Change Throughout The Simulation, The Time Column Only Contains Zero’s.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public double StartTime { get; set; } |

#### Property Value

Type: [Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.XPos Property

XPos,YPos,ZPos Define The Transmitter / Receiver Positions In A Local Coordinate System With The Transmitter (ID=0) Being The Center Position.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public int XPos { get; set; } |

#### Property Value

Type: [Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.Yaw Property

These Parameters Set The Orientation Of Transmitter / Receiver Antennas. The Respective Antenna Type Is Defined By Antennatype. The Rf Simulation Uses The Antenna Orientation To Compute The Resulting Signal Power At The Receivers.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public double Yaw { get; set; } |

#### Property Value

Type: [Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.YPos Property

XPos,YPos,ZPos Define The Transmitter / Receiver Positions In A Local Coordinate System With The Transmitter (ID=0) Being The Center Position.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public int YPos { get; set; } |

#### Property Value

Type: [Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.ZPos Property

XPos,YPos,ZPos Define The Transmitter / Receiver Positions In A Local Coordinate System With The Transmitter (ID=0) Being The Center Position.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public int ZPos { get; set; } |

#### Property Value

Type: [Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.RFDevice Methods

The [RFDevice](#_7886E387_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Clone](#_8B5C23B1_Topic) | Clones this instance. |
| Public method | [Equals(Object)](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [Equals(RFDevice)](#_959A1F7C_Topic) | Gibt an, ob das aktuelle Objekt gleich einem anderen Objekt des gleichen Typs ist. |
| Public methodStatic member | [FromXml](#_13E8C3BE_Topic) | Froms the XML. |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [ToString](#_B7150D0_Topic) | Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance. (Overrides [Object.ToString()](http://msdn2.microsoft.com/en-us/library/7bxwbwt2).) |
| Public method | [ToXml](#_20C20244_Topic) | To the XML. |
| Public method | [Validate](#_FB7427C9_Topic) |  |

## Extension Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public Extension Method | [WithAltitude](#_DD5D0F5B_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithAntennaType](#_E2FD70FD_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithBandwidth\_Hz](#_AEC2C9E8_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithCenterFrequency\_Hz](#_F231A1D9_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithDeviceSource](#_B7F5B5A6_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithGain\_dB](#_F6B210D_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithId](#_38DA441F_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithLatitude](#_DE880E3E_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithLongitude](#_8BF594B8_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithName](#_C12B4196_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithPitch](#_16005074_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithPrimaryKey](#_C8506DAB_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithRemark](#_9183D6DB_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithRoll](#_4EBECCEF_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithRxTxType](#_F595292C_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithSignalToNoiseRatio\_dB](#_E1029C9F_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithStartTime](#_5CAEAAF7_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithXPos](#_BDB2ABA_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithYaw](#_CABE1943_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithYPos](#_BDB2ABB_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |
| Public Extension Method | [WithZPos](#_BDB2AB8_Topic) | (Defined by [RFDeviceExtensions](#_3FDAE982_Topic).) |

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.Clone Method

Clones this instance.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public RFDevice Clone() |

#### Return Value

Type: [RFDevice](#_7886E387_Topic)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.Equals Method

## Overload List

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals(Object)](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [Equals(RFDevice)](#_959A1F7C_Topic) | Gibt an, ob das aktuelle Objekt gleich einem anderen Objekt des gleichen Typs ist. |

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.Equals Method (RFDevice)

Gibt an, ob das aktuelle Objekt gleich einem anderen Objekt des gleichen Typs ist.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public bool Equals(  RFDevice other ) |

#### Parameters

other

Type: [SIGENCEScenarioTool.Models.RFDevice](#_7886E387_Topic)

Ein Objekt, das mit diesem Objekt verglichen werden soll.

#### Return Value

Type: [Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)  
true, wenn das aktuelle Objekt gleich dem other-Parameter ist, andernfalls false.

#### Implements

[IEquatable(T).Equals(T)](http://msdn2.microsoft.com/en-us/library/ms131190)

## See Also

[RFDevice Class](#_7886E387_Topic)

[Equals Overload](#_7B867A78_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.FromXml Method

Froms the XML.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RFDevice FromXml(  XElement eRoot ) |

#### Parameters

eRoot

Type: [System.Xml.Linq.XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

The e root.

#### Return Value

Type: [RFDevice](#_7886E387_Topic)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.ToString Method

Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public override string ToString() |

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)  
A [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance.

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.ToXml Method

To the XML.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public XElement ToXml() |

#### Return Value

Type: [XElement](http://msdn2.microsoft.com/en-us/library/bb340098)

#### Implements

[IXmlExport.ToXml()](#_106F9F90_Topic)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.Validate Method

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public ValidationResultList Validate() |

#### Return Value

Type: [ValidationResultList](#_8FAADE5D_Topic)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.RFDevice Events

The [RFDevice](#_7886E387_Topic) type exposes the following members.

## Events

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public event | [PropertyChanged](#_631FF3B_Topic) | (Inherited from [AbstractModelBase](#_B5310C8C_Topic).) |

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.RFDevice Fields

The [RFDevice](#_7886E387_Topic) type exposes the following members.

## Fields

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public fieldStatic member | [ALTITUDE](#_871666FC_Topic) | The PropertyName As ReadOnly String For Altitude. |
| Public fieldStatic member | [ANTENNATYPE](#_E0404E13_Topic) | The PropertyName As ReadOnly String For AntennaType. |
| Public fieldStatic member | [BANDWIDTH\_HZ](#_F91A5AFC_Topic) | The PropertyName As ReadOnly String For Bandwidth\_Hz. |
| Public fieldStatic member | [CENTERFREQUENCY\_HZ](#_36D8A6F8_Topic) | The PropertyName As ReadOnly String For CenterFrequency\_Hz. |
| Public fieldStatic member | [DEFAULT\_ALTITUDE](#_AF51F344_Topic) | The DefaultValue For Altitude. |
| Public fieldStatic member | [DEFAULT\_ANTENNATYPE](#_44E5ED78_Topic) | The DefaultValue For AntennaType. |
| Public fieldStatic member | [DEFAULT\_BANDWIDTH\_HZ](#_84C4C6DB_Topic) | The DefaultValue For Bandwidth\_Hz. |
| Public fieldStatic member | [DEFAULT\_CENTERFREQUENCY\_HZ](#_5095E270_Topic) | The DefaultValue For CenterFrequency\_Hz. |
| Public fieldStatic member | [DEFAULT\_DEVICESOURCE](#_73000D8D_Topic) | The DefaultValue For DeviceSource. |
| Public fieldStatic member | [DEFAULT\_GAIN\_DB](#_B4B65E92_Topic) | The DefaultValue For Gain\_dB. |
| Public fieldStatic member | [DEFAULT\_ID](#_31961989_Topic) | The DefaultValue For Id. |
| Public fieldStatic member | [DEFAULT\_LATITUDE](#_DD3B68AB_Topic) | The DefaultValue For Latitude. |
| Public fieldStatic member | [DEFAULT\_LONGITUDE](#_D8A69DB3_Topic) | The DefaultValue For Longitude. |
| Public fieldStatic member | [DEFAULT\_NAME](#_25B182C3_Topic) | The DefaultValue For Name. |
| Public fieldStatic member | [DEFAULT\_PITCH](#_F7BAA8B8_Topic) | The DefaultValue For Pitch. |
| Public fieldStatic member | [DEFAULT\_PRIMARYKEY](#_EBCEB344_Topic) | The DefaultValue For PrimaryKey. |
| Public fieldStatic member | [DEFAULT\_REMARK](#_9BDF9359_Topic) | The DefaultValue For Remark. |
| Public fieldStatic member | [DEFAULT\_ROLL](#_FAEFC1CE_Topic) | The DefaultValue For Roll. |
| Public fieldStatic member | [DEFAULT\_RXTXTYPE](#_8999AAB1_Topic) | The DefaultValue For RxTxType. |
| Public fieldStatic member | [DEFAULT\_SIGNALTONOISERATIO\_DB](#_AA9BD229_Topic) | The DefaultValue For SignalToNoiseRatio\_dB. |
| Public fieldStatic member | [DEFAULT\_STARTTIME](#_6A068D79_Topic) | The DefaultValue For StartTime. |
| Public fieldStatic member | [DEFAULT\_XPOS](#_6CF47D6F_Topic) | The DefaultValue For XPos. |
| Public fieldStatic member | [DEFAULT\_YAW](#_886B08EC_Topic) | The DefaultValue For Yaw. |
| Public fieldStatic member | [DEFAULT\_YPOS](#_CA4D08D4_Topic) | The DefaultValue For YPos. |
| Public fieldStatic member | [DEFAULT\_ZPOS](#_B24366A5_Topic) | The DefaultValue For ZPos. |
| Public fieldStatic member | [DEVICESOURCE](#_8A3ECF3B_Topic) | The PropertyName As ReadOnly String For DeviceSource. |
| Public fieldStatic member | [GAIN\_DB](#_BC5EA470_Topic) | The PropertyName As ReadOnly String For Gain\_dB. |
| Public fieldStatic member | [ID](#_EE84617B_Topic) | The PropertyName As ReadOnly String For Id. |
| Public fieldStatic member | [LATITUDE](#_10AB8EE3_Topic) | The PropertyName As ReadOnly String For Latitude. |
| Public fieldStatic member | [LONGITUDE](#_12B33C9A_Topic) | The PropertyName As ReadOnly String For Longitude. |
| Public fieldStatic member | [NAME](#_2F1A0AF5_Topic) | The PropertyName As ReadOnly String For Name. |
| Public fieldStatic member | [PITCH](#_229CF09_Topic) | The PropertyName As ReadOnly String For Pitch. |
| Public fieldStatic member | [PRIMARYKEY](#_FF078DF_Topic) | The PropertyName As ReadOnly String For PrimaryKey. |
| Public fieldStatic member | [REMARK](#_2E5BE36E_Topic) | The PropertyName As ReadOnly String For Remark. |
| Public fieldStatic member | [ROLL](#_8A8E8238_Topic) | The PropertyName As ReadOnly String For Roll. |
| Public fieldStatic member | [RXTXTYPE](#_794AFDE5_Topic) | The PropertyName As ReadOnly String For RxTxType. |
| Public fieldStatic member | [SIGNALTONOISERATIO\_DB](#_3AD2A7F8_Topic) | The PropertyName As ReadOnly String For SignalToNoiseRatio\_dB. |
| Public fieldStatic member | [STARTTIME](#_E8B4713F_Topic) | The PropertyName As ReadOnly String For StartTime. |
| Public fieldStatic member | [XPOS](#_E7D71045_Topic) | The PropertyName As ReadOnly String For XPos. |
| Public fieldStatic member | [YAW](#_87139BC2_Topic) | The PropertyName As ReadOnly String For Yaw. |
| Public fieldStatic member | [YPOS](#_452F9BAA_Topic) | The PropertyName As ReadOnly String For YPos. |
| Public fieldStatic member | [ZPOS](#_A288270F_Topic) | The PropertyName As ReadOnly String For ZPos. |

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.ALTITUDE Field

The PropertyName As ReadOnly String For Altitude.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string ALTITUDE = "Altitude" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.ANTENNATYPE Field

The PropertyName As ReadOnly String For AntennaType.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string ANTENNATYPE = "AntennaType" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.BANDWIDTH\_HZ Field

The PropertyName As ReadOnly String For Bandwidth\_Hz.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string BANDWIDTH\_HZ = "Bandwidth\_Hz" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.CENTERFREQUENCY\_HZ Field

The PropertyName As ReadOnly String For CenterFrequency\_Hz.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string CENTERFREQUENCY\_HZ = "CenterFrequency\_Hz" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.DEFAULT\_ALTITUDE Field

The DefaultValue For Altitude.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly Altitude DEFAULT\_ALTITUDE |

#### Field Value

Type: [Altitude](#_6A9A61AE_Topic)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.DEFAULT\_ANTENNATYPE Field

The DefaultValue For AntennaType.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly AntennaType DEFAULT\_ANTENNATYPE |

#### Field Value

Type: [AntennaType](#_30813101_Topic)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.DEFAULT\_BANDWIDTH\_HZ Field

The DefaultValue For Bandwidth\_Hz.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly Bandwidth DEFAULT\_BANDWIDTH\_HZ |

#### Field Value

Type: [Bandwidth](#_A7A6A49B_Topic)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.DEFAULT\_CENTERFREQUENCY\_HZ Field

The DefaultValue For CenterFrequency\_Hz.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly Frequency DEFAULT\_CENTERFREQUENCY\_HZ |

#### Field Value

Type: [Frequency](#_90ACF8AA_Topic)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.DEFAULT\_DEVICESOURCE Field

The DefaultValue For DeviceSource.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly DeviceSource DEFAULT\_DEVICESOURCE |

#### Field Value

Type: [DeviceSource](#_93B85C6C_Topic)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.DEFAULT\_GAIN\_DB Field

The DefaultValue For Gain\_dB.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly Gain DEFAULT\_GAIN\_DB |

#### Field Value

Type: [Gain](#_C8F28179_Topic)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.DEFAULT\_ID Field

The DefaultValue For Id.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly int DEFAULT\_ID |

#### Field Value

Type: [Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.DEFAULT\_LATITUDE Field

The DefaultValue For Latitude.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly Latitude DEFAULT\_LATITUDE |

#### Field Value

Type: [Latitude](#_6A3D60D3_Topic)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.DEFAULT\_LONGITUDE Field

The DefaultValue For Longitude.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly Longitude DEFAULT\_LONGITUDE |

#### Field Value

Type: [Longitude](#_77376669_Topic)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.DEFAULT\_NAME Field

The DefaultValue For Name.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly string DEFAULT\_NAME |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.DEFAULT\_PITCH Field

The DefaultValue For Pitch.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly double DEFAULT\_PITCH |

#### Field Value

Type: [Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.DEFAULT\_PRIMARYKEY Field

The DefaultValue For PrimaryKey.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly Guid DEFAULT\_PRIMARYKEY |

#### Field Value

Type: [Guid](http://msdn2.microsoft.com/en-us/library/cey1zx63)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.DEFAULT\_REMARK Field

The DefaultValue For Remark.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly string DEFAULT\_REMARK |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.DEFAULT\_ROLL Field

The DefaultValue For Roll.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly double DEFAULT\_ROLL |

#### Field Value

Type: [Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.DEFAULT\_RXTXTYPE Field

The DefaultValue For RxTxType.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly RxTxType DEFAULT\_RXTXTYPE |

#### Field Value

Type: [RxTxType](#_9F953706_Topic)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.DEFAULT\_SIGNALTONOISERATIO\_DB Field

The DefaultValue For SignalToNoiseRatio\_dB.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly SignalToNoiseRatio DEFAULT\_SIGNALTONOISERATIO\_DB |

#### Field Value

Type: [SignalToNoiseRatio](#_9D2108AA_Topic)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.DEFAULT\_STARTTIME Field

The DefaultValue For StartTime.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly double DEFAULT\_STARTTIME |

#### Field Value

Type: [Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.DEFAULT\_XPOS Field

The DefaultValue For XPos.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly int DEFAULT\_XPOS |

#### Field Value

Type: [Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.DEFAULT\_YAW Field

The DefaultValue For Yaw.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly double DEFAULT\_YAW |

#### Field Value

Type: [Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.DEFAULT\_YPOS Field

The DefaultValue For YPos.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly int DEFAULT\_YPOS |

#### Field Value

Type: [Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.DEFAULT\_ZPOS Field

The DefaultValue For ZPos.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly int DEFAULT\_ZPOS |

#### Field Value

Type: [Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.DEVICESOURCE Field

The PropertyName As ReadOnly String For DeviceSource.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string DEVICESOURCE = "DeviceSource" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.GAIN\_DB Field

The PropertyName As ReadOnly String For Gain\_dB.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string GAIN\_DB = "Gain\_dB" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.ID Field

The PropertyName As ReadOnly String For Id.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string ID = "Id" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.LATITUDE Field

The PropertyName As ReadOnly String For Latitude.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string LATITUDE = "Latitude" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.LONGITUDE Field

The PropertyName As ReadOnly String For Longitude.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string LONGITUDE = "Longitude" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.NAME Field

The PropertyName As ReadOnly String For Name.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string NAME = "Name" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.PITCH Field

The PropertyName As ReadOnly String For Pitch.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string PITCH = "Pitch" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.PRIMARYKEY Field

The PropertyName As ReadOnly String For PrimaryKey.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string PRIMARYKEY = "PrimaryKey" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.REMARK Field

The PropertyName As ReadOnly String For Remark.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string REMARK = "Remark" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.ROLL Field

The PropertyName As ReadOnly String For Roll.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string ROLL = "Roll" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.RXTXTYPE Field

The PropertyName As ReadOnly String For RxTxType.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string RXTXTYPE = "RxTxType" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.SIGNALTONOISERATIO\_DB Field

The PropertyName As ReadOnly String For SignalToNoiseRatio\_dB.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string SIGNALTONOISERATIO\_DB = "SignalToNoiseRatio\_dB" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.STARTTIME Field

The PropertyName As ReadOnly String For StartTime.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string STARTTIME = "StartTime" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.XPOS Field

The PropertyName As ReadOnly String For XPos.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string XPOS = "XPos" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.YAW Field

The PropertyName As ReadOnly String For Yaw.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string YAW = "Yaw" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.YPOS Field

The PropertyName As ReadOnly String For YPos.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string YPOS = "YPos" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDevice.ZPOS Field

The PropertyName As ReadOnly String For ZPos.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public const string ZPOS = "ZPos" |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDevice Class](#_7886E387_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceExtensions Class

Represent A Device Based On A Radio Frequency.

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Models.RFDeviceExtensions

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static class RFDeviceExtensions |

The **RFDeviceExtensions** type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [WithAltitude](#_DD5D0F5B_Topic) |  |
| Public methodStatic member | [WithAntennaType](#_E2FD70FD_Topic) |  |
| Public methodStatic member | [WithBandwidth\_Hz](#_AEC2C9E8_Topic) |  |
| Public methodStatic member | [WithCenterFrequency\_Hz](#_F231A1D9_Topic) |  |
| Public methodStatic member | [WithDeviceSource](#_B7F5B5A6_Topic) |  |
| Public methodStatic member | [WithGain\_dB](#_F6B210D_Topic) |  |
| Public methodStatic member | [WithId](#_38DA441F_Topic) |  |
| Public methodStatic member | [WithLatitude](#_DE880E3E_Topic) |  |
| Public methodStatic member | [WithLongitude](#_8BF594B8_Topic) |  |
| Public methodStatic member | [WithName](#_C12B4196_Topic) |  |
| Public methodStatic member | [WithPitch](#_16005074_Topic) |  |
| Public methodStatic member | [WithPrimaryKey](#_C8506DAB_Topic) |  |
| Public methodStatic member | [WithRemark](#_9183D6DB_Topic) |  |
| Public methodStatic member | [WithRoll](#_4EBECCEF_Topic) |  |
| Public methodStatic member | [WithRxTxType](#_F595292C_Topic) |  |
| Public methodStatic member | [WithSignalToNoiseRatio\_dB](#_E1029C9F_Topic) |  |
| Public methodStatic member | [WithStartTime](#_5CAEAAF7_Topic) |  |
| Public methodStatic member | [WithXPos](#_BDB2ABA_Topic) |  |
| Public methodStatic member | [WithYaw](#_CABE1943_Topic) |  |
| Public methodStatic member | [WithYPos](#_BDB2ABB_Topic) |  |
| Public methodStatic member | [WithZPos](#_BDB2AB8_Topic) |  |

## See Also

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceExtensions.RFDeviceExtensions Methods

The [RFDeviceExtensions](#_3FDAE982_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [WithAltitude](#_DD5D0F5B_Topic) |  |
| Public methodStatic member | [WithAntennaType](#_E2FD70FD_Topic) |  |
| Public methodStatic member | [WithBandwidth\_Hz](#_AEC2C9E8_Topic) |  |
| Public methodStatic member | [WithCenterFrequency\_Hz](#_F231A1D9_Topic) |  |
| Public methodStatic member | [WithDeviceSource](#_B7F5B5A6_Topic) |  |
| Public methodStatic member | [WithGain\_dB](#_F6B210D_Topic) |  |
| Public methodStatic member | [WithId](#_38DA441F_Topic) |  |
| Public methodStatic member | [WithLatitude](#_DE880E3E_Topic) |  |
| Public methodStatic member | [WithLongitude](#_8BF594B8_Topic) |  |
| Public methodStatic member | [WithName](#_C12B4196_Topic) |  |
| Public methodStatic member | [WithPitch](#_16005074_Topic) |  |
| Public methodStatic member | [WithPrimaryKey](#_C8506DAB_Topic) |  |
| Public methodStatic member | [WithRemark](#_9183D6DB_Topic) |  |
| Public methodStatic member | [WithRoll](#_4EBECCEF_Topic) |  |
| Public methodStatic member | [WithRxTxType](#_F595292C_Topic) |  |
| Public methodStatic member | [WithSignalToNoiseRatio\_dB](#_E1029C9F_Topic) |  |
| Public methodStatic member | [WithStartTime](#_5CAEAAF7_Topic) |  |
| Public methodStatic member | [WithXPos](#_BDB2ABA_Topic) |  |
| Public methodStatic member | [WithYaw](#_CABE1943_Topic) |  |
| Public methodStatic member | [WithYPos](#_BDB2ABB_Topic) |  |
| Public methodStatic member | [WithZPos](#_BDB2AB8_Topic) |  |

## See Also

[RFDeviceExtensions Class](#_3FDAE982_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceExtensions.WithAltitude Method

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RFDevice WithAltitude(  this RFDevice instance,  Altitude value ) |

#### Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#_7886E387_Topic)

value

Type: [SIGENCEScenarioTool.Datatypes.Geo.Altitude](#_6A9A61AE_Topic)

#### Return Value

Type: [RFDevice](#_7886E387_Topic)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#_7886E387_Topic). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RFDeviceExtensions Class](#_3FDAE982_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceExtensions.WithAntennaType Method

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RFDevice WithAntennaType(  this RFDevice instance,  AntennaType value ) |

#### Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#_7886E387_Topic)

value

Type: [SIGENCEScenarioTool.Models.AntennaType](#_30813101_Topic)

#### Return Value

Type: [RFDevice](#_7886E387_Topic)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#_7886E387_Topic). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RFDeviceExtensions Class](#_3FDAE982_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceExtensions.WithBandwidth\_Hz Method

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RFDevice WithBandwidth\_Hz(  this RFDevice instance,  Bandwidth value ) |

#### Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#_7886E387_Topic)

value

Type: [SIGENCEScenarioTool.Datatypes.Physically.Bandwidth](#_A7A6A49B_Topic)

#### Return Value

Type: [RFDevice](#_7886E387_Topic)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#_7886E387_Topic). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RFDeviceExtensions Class](#_3FDAE982_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceExtensions.WithCenterFrequency\_Hz Method

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RFDevice WithCenterFrequency\_Hz(  this RFDevice instance,  Frequency value ) |

#### Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#_7886E387_Topic)

value

Type: [SIGENCEScenarioTool.Datatypes.Physically.Frequency](#_90ACF8AA_Topic)

#### Return Value

Type: [RFDevice](#_7886E387_Topic)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#_7886E387_Topic). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RFDeviceExtensions Class](#_3FDAE982_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceExtensions.WithDeviceSource Method

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RFDevice WithDeviceSource(  this RFDevice instance,  DeviceSource value ) |

#### Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#_7886E387_Topic)

value

Type: [SIGENCEScenarioTool.Models.DeviceSource](#_93B85C6C_Topic)

#### Return Value

Type: [RFDevice](#_7886E387_Topic)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#_7886E387_Topic). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RFDeviceExtensions Class](#_3FDAE982_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceExtensions.WithGain\_dB Method

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RFDevice WithGain\_dB(  this RFDevice instance,  Gain value ) |

#### Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#_7886E387_Topic)

value

Type: [SIGENCEScenarioTool.Datatypes.Physically.Gain](#_C8F28179_Topic)

#### Return Value

Type: [RFDevice](#_7886E387_Topic)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#_7886E387_Topic). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RFDeviceExtensions Class](#_3FDAE982_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceExtensions.WithId Method

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RFDevice WithId(  this RFDevice instance,  int value ) |

#### Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#_7886E387_Topic)

value

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

#### Return Value

Type: [RFDevice](#_7886E387_Topic)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#_7886E387_Topic). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RFDeviceExtensions Class](#_3FDAE982_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceExtensions.WithLatitude Method

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RFDevice WithLatitude(  this RFDevice instance,  Latitude value ) |

#### Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#_7886E387_Topic)

value

Type: [SIGENCEScenarioTool.Datatypes.Geo.Latitude](#_6A3D60D3_Topic)

#### Return Value

Type: [RFDevice](#_7886E387_Topic)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#_7886E387_Topic). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RFDeviceExtensions Class](#_3FDAE982_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceExtensions.WithLongitude Method

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RFDevice WithLongitude(  this RFDevice instance,  Longitude value ) |

#### Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#_7886E387_Topic)

value

Type: [SIGENCEScenarioTool.Datatypes.Geo.Longitude](#_77376669_Topic)

#### Return Value

Type: [RFDevice](#_7886E387_Topic)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#_7886E387_Topic). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RFDeviceExtensions Class](#_3FDAE982_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceExtensions.WithName Method

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RFDevice WithName(  this RFDevice instance,  string value ) |

#### Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#_7886E387_Topic)

value

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Return Value

Type: [RFDevice](#_7886E387_Topic)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#_7886E387_Topic). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RFDeviceExtensions Class](#_3FDAE982_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceExtensions.WithPitch Method

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RFDevice WithPitch(  this RFDevice instance,  double value ) |

#### Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#_7886E387_Topic)

value

Type: [System.Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

#### Return Value

Type: [RFDevice](#_7886E387_Topic)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#_7886E387_Topic). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RFDeviceExtensions Class](#_3FDAE982_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceExtensions.WithPrimaryKey Method

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RFDevice WithPrimaryKey(  this RFDevice instance,  Guid value ) |

#### Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#_7886E387_Topic)

value

Type: [System.Guid](http://msdn2.microsoft.com/en-us/library/cey1zx63)

#### Return Value

Type: [RFDevice](#_7886E387_Topic)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#_7886E387_Topic). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RFDeviceExtensions Class](#_3FDAE982_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceExtensions.WithRemark Method

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RFDevice WithRemark(  this RFDevice instance,  string value ) |

#### Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#_7886E387_Topic)

value

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Return Value

Type: [RFDevice](#_7886E387_Topic)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#_7886E387_Topic). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RFDeviceExtensions Class](#_3FDAE982_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceExtensions.WithRoll Method

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RFDevice WithRoll(  this RFDevice instance,  double value ) |

#### Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#_7886E387_Topic)

value

Type: [System.Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

#### Return Value

Type: [RFDevice](#_7886E387_Topic)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#_7886E387_Topic). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RFDeviceExtensions Class](#_3FDAE982_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceExtensions.WithRxTxType Method

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RFDevice WithRxTxType(  this RFDevice instance,  RxTxType value ) |

#### Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#_7886E387_Topic)

value

Type: [SIGENCEScenarioTool.Models.RxTxTypes.RxTxType](#_9F953706_Topic)

#### Return Value

Type: [RFDevice](#_7886E387_Topic)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#_7886E387_Topic). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RFDeviceExtensions Class](#_3FDAE982_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceExtensions.WithSignalToNoiseRatio\_dB Method

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RFDevice WithSignalToNoiseRatio\_dB(  this RFDevice instance,  SignalToNoiseRatio value ) |

#### Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#_7886E387_Topic)

value

Type: [SIGENCEScenarioTool.Datatypes.Physically.SignalToNoiseRatio](#_9D2108AA_Topic)

#### Return Value

Type: [RFDevice](#_7886E387_Topic)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#_7886E387_Topic). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RFDeviceExtensions Class](#_3FDAE982_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceExtensions.WithStartTime Method

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RFDevice WithStartTime(  this RFDevice instance,  double value ) |

#### Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#_7886E387_Topic)

value

Type: [System.Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

#### Return Value

Type: [RFDevice](#_7886E387_Topic)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#_7886E387_Topic). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RFDeviceExtensions Class](#_3FDAE982_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceExtensions.WithXPos Method

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RFDevice WithXPos(  this RFDevice instance,  int value ) |

#### Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#_7886E387_Topic)

value

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

#### Return Value

Type: [RFDevice](#_7886E387_Topic)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#_7886E387_Topic). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RFDeviceExtensions Class](#_3FDAE982_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceExtensions.WithYaw Method

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RFDevice WithYaw(  this RFDevice instance,  double value ) |

#### Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#_7886E387_Topic)

value

Type: [System.Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

#### Return Value

Type: [RFDevice](#_7886E387_Topic)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#_7886E387_Topic). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RFDeviceExtensions Class](#_3FDAE982_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceExtensions.WithYPos Method

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RFDevice WithYPos(  this RFDevice instance,  int value ) |

#### Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#_7886E387_Topic)

value

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

#### Return Value

Type: [RFDevice](#_7886E387_Topic)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#_7886E387_Topic). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RFDeviceExtensions Class](#_3FDAE982_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceExtensions.WithZPos Method

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RFDevice WithZPos(  this RFDevice instance,  int value ) |

#### Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#_7886E387_Topic)

value

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

#### Return Value

Type: [RFDevice](#_7886E387_Topic)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#_7886E387_Topic). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods (Visual Basic)](http://msdn.microsoft.com/en-us/library/bb384936.aspx) or [Extension Methods (C# Programming Guide)](http://msdn.microsoft.com/en-us/library/bb383977.aspx).

## See Also

[RFDeviceExtensions Class](#_3FDAE982_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceList Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  [System.Collections.Generic.List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic))  
    SIGENCEScenarioTool.Models.RFDeviceList

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public sealed class RFDeviceList : List<RFDevice> |

The **RFDeviceList** type exposes the following members.

## Constructors

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [RFDeviceList()](#_491288A5_Topic) | Initializes a new instance of the **RFDeviceList** class. |
| Public method | [RFDeviceList(Int32)](#_F61E46F6_Topic) | Initializes a new instance of the **RFDeviceList** class. |
| Public method | [RFDeviceList(IEnumerable(RFDevice))](#_F61E46F7_Topic) | Initializes a new instance of the **RFDeviceList** class. |

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Capacity](http://msdn2.microsoft.com/en-us/library/y52x03h2) | Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public property | [Count](http://msdn2.microsoft.com/en-us/library/27b47ht3) | Gets the number of elements contained in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public property | [Item](http://msdn2.microsoft.com/en-us/library/0ebtbkkc) | Gets or sets the element at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Add](http://msdn2.microsoft.com/en-us/library/3wcytfd1) | Adds an object to the end of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [AddRange](http://msdn2.microsoft.com/en-us/library/z883w3dc) | Adds the elements of the specified collection to the end of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [AsReadOnly](http://msdn2.microsoft.com/en-us/library/e78dcd75) | Returns a read-only [IList(T)](http://msdn2.microsoft.com/en-us/library/5y536ey6) wrapper for the current collection. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [BinarySearch(T)](http://msdn2.microsoft.com/en-us/library/w4e7fxsh) | Searches the entire sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the default comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [BinarySearch(T, IComparer(T))](http://msdn2.microsoft.com/en-us/library/ftfdbfx6) | Searches the entire sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the specified comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [BinarySearch(Int32, Int32, T, IComparer(T))](http://msdn2.microsoft.com/en-us/library/a1s5syxa) | Searches a range of elements in the sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the specified comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [Clear](http://msdn2.microsoft.com/en-us/library/dwb5h52a) | Removes all elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [Contains](http://msdn2.microsoft.com/en-us/library/bhkz42b3) | Determines whether an element is in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [ConvertAll(TOutput)](http://msdn2.microsoft.com/en-us/library/73fe8cwf) | Converts the elements in the current [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to another type, and returns a list containing the converted elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [CopyTo(T[])](http://msdn2.microsoft.com/en-us/library/t69dktcd) | Copies the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the beginning of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [CopyTo(T[], Int32)](http://msdn2.microsoft.com/en-us/library/4df7xky9) | Copies the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [CopyTo(Int32,T[], Int32, Int32)](http://msdn2.microsoft.com/en-us/library/3eb2b9x8) | Copies a range of elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public methodStatic member | [CreateRandomizedRFDeviceList](#_28304207_Topic) | Creates the randomized rf device list. |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [Exists](http://msdn2.microsoft.com/en-us/library/bfed8bca) | Determines whether the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) contains elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [Find](http://msdn2.microsoft.com/en-us/library/x0b5b5bc) | Searches for an element that matches the conditions defined by the specified predicate, and returns the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [FindAll](http://msdn2.microsoft.com/en-us/library/fh1w7y8z) | Retrieves all the elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [FindIndex(Predicate(T))](http://msdn2.microsoft.com/en-us/library/x1xzf2ca) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [FindIndex(Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/efasdh0s) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the specified index to the last element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [FindIndex(Int32, Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/7eb596wz) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that starts at the specified index and contains the specified number of elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [FindLast](http://msdn2.microsoft.com/en-us/library/5kthb929) | Searches for an element that matches the conditions defined by the specified predicate, and returns the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [FindLastIndex(Predicate(T))](http://msdn2.microsoft.com/en-us/library/xzs5503w) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [FindLastIndex(Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/0b9t5061) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the first element to the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [FindLastIndex(Int32, Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/860a771k) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that contains the specified number of elements and ends at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [ForEach](http://msdn2.microsoft.com/en-us/library/bwabdf9z) | Performs the specified action on each element of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [GetEnumerator](http://msdn2.microsoft.com/en-us/library/b0yss765) | Returns an enumerator that iterates through the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetRange](http://msdn2.microsoft.com/en-us/library/21k0e39c) | Creates a shallow copy of a range of elements in the source [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IndexOf(T)](http://msdn2.microsoft.com/en-us/library/e4w08k17) | Searches for the specified object and returns the zero-based index of the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [IndexOf(T, Int32)](http://msdn2.microsoft.com/en-us/library/s8t42k5w) | Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the specified index to the last element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [IndexOf(T, Int32, Int32)](http://msdn2.microsoft.com/en-us/library/dy8zse0c) | Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that starts at the specified index and contains the specified number of elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [Insert](http://msdn2.microsoft.com/en-us/library/sey5k5z4) | Inserts an element into the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [InsertRange](http://msdn2.microsoft.com/en-us/library/884ee1fz) | Inserts the elements of a collection into the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [LastIndexOf(T)](http://msdn2.microsoft.com/en-us/library/dsxfcba1) | Searches for the specified object and returns the zero-based index of the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [LastIndexOf(T, Int32)](http://msdn2.microsoft.com/en-us/library/s088xd6w) | Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the first element to the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [LastIndexOf(T, Int32, Int32)](http://msdn2.microsoft.com/en-us/library/haast0bw) | Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that contains the specified number of elements and ends at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [Remove](http://msdn2.microsoft.com/en-us/library/cd666k3e) | Removes the first occurrence of a specific object from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [RemoveAll](http://msdn2.microsoft.com/en-us/library/wdka673a) | Removes all the elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [RemoveAt](http://msdn2.microsoft.com/en-us/library/5cw9x18z) | Removes the element at the specified index of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [RemoveRange](http://msdn2.microsoft.com/en-us/library/y33yd2b5) | Removes a range of elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [Reverse()](http://msdn2.microsoft.com/en-us/library/b0axc2h2) | Reverses the order of the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [Reverse(Int32, Int32)](http://msdn2.microsoft.com/en-us/library/hf2ay11y) | Reverses the order of the elements in the specified range. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [Sort()](http://msdn2.microsoft.com/en-us/library/b0zbh7b6) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the default comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [Sort(IComparer(T))](http://msdn2.microsoft.com/en-us/library/234b841s) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [Sort(Comparison(T))](http://msdn2.microsoft.com/en-us/library/w56d4y5z) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified [Comparison(T)](http://msdn2.microsoft.com/en-us/library/tfakywbh). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [Sort(Int32, Int32, IComparer(T))](http://msdn2.microsoft.com/en-us/library/8ce6t5ad) | Sorts the elements in a range of elements in [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [ToArray](http://msdn2.microsoft.com/en-us/library/x303t819) | Copies the elements of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a new array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [TrimExcess](http://msdn2.microsoft.com/en-us/library/ms132207) | Sets the capacity to the actual number of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19), if that number is less than a threshold value. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [TrueForAll](http://msdn2.microsoft.com/en-us/library/kdxe4x4w) | Determines whether every element in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) matches the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |

## Extension Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public Extension Method | [SaveAsCsv(RFDevice)](#_E6A752FD_Topic) | Saves the list as CSV. (Defined by [ListExtension](#_CD56FF2D_Topic).) |
| Public Extension Method | [SaveAsXml(RFDevice)](#_6E561BA7_Topic) | Saves the list as XML. (Defined by [ListExtension](#_CD56FF2D_Topic).) |

## See Also

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceList Constructor

## Overload List

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [RFDeviceList()](#_491288A5_Topic) | Initializes a new instance of the [RFDeviceList](#_C9DFBBDF_Topic) class. |
| Public method | [RFDeviceList(Int32)](#_F61E46F6_Topic) | Initializes a new instance of the [RFDeviceList](#_C9DFBBDF_Topic) class. |
| Public method | [RFDeviceList(IEnumerable(RFDevice))](#_F61E46F7_Topic) | Initializes a new instance of the [RFDeviceList](#_C9DFBBDF_Topic) class. |

## See Also

[RFDeviceList Class](#_C9DFBBDF_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceList Constructor

Initializes a new instance of the [RFDeviceList](#_C9DFBBDF_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public RFDeviceList() |

## See Also

[RFDeviceList Class](#_C9DFBBDF_Topic)

[RFDeviceList Overload](#_AEE3A660_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceList Constructor (Int32)

Initializes a new instance of the [RFDeviceList](#_C9DFBBDF_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public RFDeviceList(  int iInitialSize ) |

#### Parameters

iInitialSize

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

Initial size of the i.

## See Also

[RFDeviceList Class](#_C9DFBBDF_Topic)

[RFDeviceList Overload](#_AEE3A660_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceList Constructor (IEnumerable(RFDevice))

Initializes a new instance of the [RFDeviceList](#_C9DFBBDF_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public RFDeviceList(  IEnumerable<RFDevice> collection ) |

#### Parameters

collection

Type: [System.Collections.Generic.IEnumerable](http://msdn2.microsoft.com/en-us/library/9eekhta0)([RFDevice](#_7886E387_Topic))

Die Auflistung, deren Elemente in die neue Liste kopiert werden.

## See Also

[RFDeviceList Class](#_C9DFBBDF_Topic)

[RFDeviceList Overload](#_AEE3A660_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceList.RFDeviceList Properties

The [RFDeviceList](#_C9DFBBDF_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Capacity](http://msdn2.microsoft.com/en-us/library/y52x03h2) | Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public property | [Count](http://msdn2.microsoft.com/en-us/library/27b47ht3) | Gets the number of elements contained in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public property | [Item](http://msdn2.microsoft.com/en-us/library/0ebtbkkc) | Gets or sets the element at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |

## See Also

[RFDeviceList Class](#_C9DFBBDF_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceList.RFDeviceList Methods

The [RFDeviceList](#_C9DFBBDF_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Add](http://msdn2.microsoft.com/en-us/library/3wcytfd1) | Adds an object to the end of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [AddRange](http://msdn2.microsoft.com/en-us/library/z883w3dc) | Adds the elements of the specified collection to the end of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [AsReadOnly](http://msdn2.microsoft.com/en-us/library/e78dcd75) | Returns a read-only [IList(T)](http://msdn2.microsoft.com/en-us/library/5y536ey6) wrapper for the current collection. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [BinarySearch(T)](http://msdn2.microsoft.com/en-us/library/w4e7fxsh) | Searches the entire sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the default comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [BinarySearch(T, IComparer(T))](http://msdn2.microsoft.com/en-us/library/ftfdbfx6) | Searches the entire sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the specified comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [BinarySearch(Int32, Int32, T, IComparer(T))](http://msdn2.microsoft.com/en-us/library/a1s5syxa) | Searches a range of elements in the sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the specified comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [Clear](http://msdn2.microsoft.com/en-us/library/dwb5h52a) | Removes all elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [Contains](http://msdn2.microsoft.com/en-us/library/bhkz42b3) | Determines whether an element is in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [ConvertAll(TOutput)](http://msdn2.microsoft.com/en-us/library/73fe8cwf) | Converts the elements in the current [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to another type, and returns a list containing the converted elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [CopyTo(T[])](http://msdn2.microsoft.com/en-us/library/t69dktcd) | Copies the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the beginning of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [CopyTo(T[], Int32)](http://msdn2.microsoft.com/en-us/library/4df7xky9) | Copies the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [CopyTo(Int32,T[], Int32, Int32)](http://msdn2.microsoft.com/en-us/library/3eb2b9x8) | Copies a range of elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public methodStatic member | [CreateRandomizedRFDeviceList](#_28304207_Topic) | Creates the randomized rf device list. |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [Exists](http://msdn2.microsoft.com/en-us/library/bfed8bca) | Determines whether the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) contains elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [Find](http://msdn2.microsoft.com/en-us/library/x0b5b5bc) | Searches for an element that matches the conditions defined by the specified predicate, and returns the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [FindAll](http://msdn2.microsoft.com/en-us/library/fh1w7y8z) | Retrieves all the elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [FindIndex(Predicate(T))](http://msdn2.microsoft.com/en-us/library/x1xzf2ca) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [FindIndex(Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/efasdh0s) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the specified index to the last element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [FindIndex(Int32, Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/7eb596wz) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that starts at the specified index and contains the specified number of elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [FindLast](http://msdn2.microsoft.com/en-us/library/5kthb929) | Searches for an element that matches the conditions defined by the specified predicate, and returns the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [FindLastIndex(Predicate(T))](http://msdn2.microsoft.com/en-us/library/xzs5503w) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [FindLastIndex(Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/0b9t5061) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the first element to the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [FindLastIndex(Int32, Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/860a771k) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that contains the specified number of elements and ends at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [ForEach](http://msdn2.microsoft.com/en-us/library/bwabdf9z) | Performs the specified action on each element of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [GetEnumerator](http://msdn2.microsoft.com/en-us/library/b0yss765) | Returns an enumerator that iterates through the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetRange](http://msdn2.microsoft.com/en-us/library/21k0e39c) | Creates a shallow copy of a range of elements in the source [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IndexOf(T)](http://msdn2.microsoft.com/en-us/library/e4w08k17) | Searches for the specified object and returns the zero-based index of the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [IndexOf(T, Int32)](http://msdn2.microsoft.com/en-us/library/s8t42k5w) | Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the specified index to the last element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [IndexOf(T, Int32, Int32)](http://msdn2.microsoft.com/en-us/library/dy8zse0c) | Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that starts at the specified index and contains the specified number of elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [Insert](http://msdn2.microsoft.com/en-us/library/sey5k5z4) | Inserts an element into the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [InsertRange](http://msdn2.microsoft.com/en-us/library/884ee1fz) | Inserts the elements of a collection into the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [LastIndexOf(T)](http://msdn2.microsoft.com/en-us/library/dsxfcba1) | Searches for the specified object and returns the zero-based index of the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [LastIndexOf(T, Int32)](http://msdn2.microsoft.com/en-us/library/s088xd6w) | Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the first element to the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [LastIndexOf(T, Int32, Int32)](http://msdn2.microsoft.com/en-us/library/haast0bw) | Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that contains the specified number of elements and ends at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [Remove](http://msdn2.microsoft.com/en-us/library/cd666k3e) | Removes the first occurrence of a specific object from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [RemoveAll](http://msdn2.microsoft.com/en-us/library/wdka673a) | Removes all the elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [RemoveAt](http://msdn2.microsoft.com/en-us/library/5cw9x18z) | Removes the element at the specified index of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [RemoveRange](http://msdn2.microsoft.com/en-us/library/y33yd2b5) | Removes a range of elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [Reverse()](http://msdn2.microsoft.com/en-us/library/b0axc2h2) | Reverses the order of the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [Reverse(Int32, Int32)](http://msdn2.microsoft.com/en-us/library/hf2ay11y) | Reverses the order of the elements in the specified range. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [Sort()](http://msdn2.microsoft.com/en-us/library/b0zbh7b6) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the default comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [Sort(IComparer(T))](http://msdn2.microsoft.com/en-us/library/234b841s) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [Sort(Comparison(T))](http://msdn2.microsoft.com/en-us/library/w56d4y5z) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified [Comparison(T)](http://msdn2.microsoft.com/en-us/library/tfakywbh). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [Sort(Int32, Int32, IComparer(T))](http://msdn2.microsoft.com/en-us/library/8ce6t5ad) | Sorts the elements in a range of elements in [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [ToArray](http://msdn2.microsoft.com/en-us/library/x303t819) | Copies the elements of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a new array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [TrimExcess](http://msdn2.microsoft.com/en-us/library/ms132207) | Sets the capacity to the actual number of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19), if that number is less than a threshold value. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |
| Public method | [TrueForAll](http://msdn2.microsoft.com/en-us/library/kdxe4x4w) | Determines whether every element in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) matches the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([RFDevice](#_7886E387_Topic)).) |

## Extension Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public Extension Method | [SaveAsCsv(RFDevice)](#_E6A752FD_Topic) | Saves the list as CSV. (Defined by [ListExtension](#_CD56FF2D_Topic).) |
| Public Extension Method | [SaveAsXml(RFDevice)](#_6E561BA7_Topic) | Saves the list as XML. (Defined by [ListExtension](#_CD56FF2D_Topic).) |

## See Also

[RFDeviceList Class](#_C9DFBBDF_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceList.CreateRandomizedRFDeviceList Method

Creates the randomized rf device list.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RFDeviceList CreateRandomizedRFDeviceList(  int iMaxCount,  PointLatLng pllCenter,  bool bEnsureRefDevice = false ) |

#### Parameters

iMaxCount

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

The i maximum count.

pllCenter

Type: **PointLatLng**

The PLL center.

bEnsureRefDevice (Optional)

Type: [System.Boolean](http://msdn2.microsoft.com/en-us/library/a28wyd50)

if set to true [b ensure reference device].

#### Return Value

Type: [RFDeviceList](#_C9DFBBDF_Topic)

## See Also

[RFDeviceList Class](#_C9DFBBDF_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceTooltips Class

The tooltips for our properties to display in the HMI.

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Models.RFDeviceTooltips

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public sealed class RFDeviceTooltips |

The **RFDeviceTooltips** type exposes the following members.

## Constructors

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [RFDeviceTooltips](#_653B36B1_Topic) | Initializes a new instance of the **RFDeviceTooltips** class |

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [TOOLTIP\_ALTITUDE](#_C7438662_Topic) | The tooltip for the Altitude. |
| Public property | [TOOLTIP\_ANTENNATYPE](#_66AE5F6D_Topic) | The tooltip for the AntennaType. |
| Public property | [TOOLTIP\_BANDWIDTH\_HZ](#_F7F0638B_Topic) | The tooltip for the Bandwidth\_Hz. |
| Public property | [TOOLTIP\_CENTERFREQUENCY\_HZ](#_3D605E54_Topic) | The tooltip for the CenterFrequency\_Hz. |
| Public property | [TOOLTIP\_DEVICESOURCE](#_FFA18DB1_Topic) | The tooltip for the DeviceSource. |
| Public property | [TOOLTIP\_GAIN\_DB](#_34E23624_Topic) | The tooltip for the Gain\_dB. |
| Public property | [TOOLTIP\_ID](#_F762B255_Topic) | The tooltip for the Id. |
| Public property | [TOOLTIP\_LATITUDE](#_87B76AA1_Topic) | The tooltip for the Latitude. |
| Public property | [TOOLTIP\_LONGITUDE](#_2D2A0B76_Topic) | The tooltip for the Longitude. |
| Public property | [TOOLTIP\_NAME](#_FBFA8E88_Topic) | The tooltip for the Name. |
| Public property | [TOOLTIP\_PITCH](#_E018EE14_Topic) | The tooltip for the Pitch. |
| Public property | [TOOLTIP\_PRIMARYKEY](#_EB49F5D1_Topic) | The tooltip for the PrimaryKey. |
| Public property | [TOOLTIP\_REMARK](#_AE661EB3_Topic) | The tooltip for the Remark. |
| Public property | [TOOLTIP\_ROLL](#_54504F7D_Topic) | The tooltip for the Roll. |
| Public property | [TOOLTIP\_RXTXTYPE](#_E411918B_Topic) | The tooltip for the RxTxType. |
| Public property | [TOOLTIP\_SIGNALTONOISERATIO\_DB](#_2B18FFDA_Topic) | The tooltip for the SignalToNoiseRatio\_dB. |
| Public property | [TOOLTIP\_STARTTIME](#_32143931_Topic) | The tooltip for the StartTime. |
| Public property | [TOOLTIP\_XPOS](#_CB8193D8_Topic) | The tooltip for the XPos. |
| Public property | [TOOLTIP\_YAW](#_53F21F35_Topic) | The tooltip for the Yaw. |
| Public property | [TOOLTIP\_YPOS](#_28DA1F3D_Topic) | The tooltip for the YPos. |
| Public property | [TOOLTIP\_ZPOS](#_8632AAA2_Topic) | The tooltip for the ZPos. |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |

## See Also

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceTooltips Constructor

Initializes a new instance of the [RFDeviceTooltips](#_4CBA3D87_Topic) class

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public RFDeviceTooltips() |

## See Also

[RFDeviceTooltips Class](#_4CBA3D87_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceTooltips.RFDeviceTooltips Properties

The [RFDeviceTooltips](#_4CBA3D87_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [TOOLTIP\_ALTITUDE](#_C7438662_Topic) | The tooltip for the Altitude. |
| Public property | [TOOLTIP\_ANTENNATYPE](#_66AE5F6D_Topic) | The tooltip for the AntennaType. |
| Public property | [TOOLTIP\_BANDWIDTH\_HZ](#_F7F0638B_Topic) | The tooltip for the Bandwidth\_Hz. |
| Public property | [TOOLTIP\_CENTERFREQUENCY\_HZ](#_3D605E54_Topic) | The tooltip for the CenterFrequency\_Hz. |
| Public property | [TOOLTIP\_DEVICESOURCE](#_FFA18DB1_Topic) | The tooltip for the DeviceSource. |
| Public property | [TOOLTIP\_GAIN\_DB](#_34E23624_Topic) | The tooltip for the Gain\_dB. |
| Public property | [TOOLTIP\_ID](#_F762B255_Topic) | The tooltip for the Id. |
| Public property | [TOOLTIP\_LATITUDE](#_87B76AA1_Topic) | The tooltip for the Latitude. |
| Public property | [TOOLTIP\_LONGITUDE](#_2D2A0B76_Topic) | The tooltip for the Longitude. |
| Public property | [TOOLTIP\_NAME](#_FBFA8E88_Topic) | The tooltip for the Name. |
| Public property | [TOOLTIP\_PITCH](#_E018EE14_Topic) | The tooltip for the Pitch. |
| Public property | [TOOLTIP\_PRIMARYKEY](#_EB49F5D1_Topic) | The tooltip for the PrimaryKey. |
| Public property | [TOOLTIP\_REMARK](#_AE661EB3_Topic) | The tooltip for the Remark. |
| Public property | [TOOLTIP\_ROLL](#_54504F7D_Topic) | The tooltip for the Roll. |
| Public property | [TOOLTIP\_RXTXTYPE](#_E411918B_Topic) | The tooltip for the RxTxType. |
| Public property | [TOOLTIP\_SIGNALTONOISERATIO\_DB](#_2B18FFDA_Topic) | The tooltip for the SignalToNoiseRatio\_dB. |
| Public property | [TOOLTIP\_STARTTIME](#_32143931_Topic) | The tooltip for the StartTime. |
| Public property | [TOOLTIP\_XPOS](#_CB8193D8_Topic) | The tooltip for the XPos. |
| Public property | [TOOLTIP\_YAW](#_53F21F35_Topic) | The tooltip for the Yaw. |
| Public property | [TOOLTIP\_YPOS](#_28DA1F3D_Topic) | The tooltip for the YPos. |
| Public property | [TOOLTIP\_ZPOS](#_8632AAA2_Topic) | The tooltip for the ZPos. |

## See Also

[RFDeviceTooltips Class](#_4CBA3D87_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceTooltips.TOOLTIP\_ALTITUDE Property

The tooltip for the Altitude.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string TOOLTIP\_ALTITUDE { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDeviceTooltips Class](#_4CBA3D87_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceTooltips.TOOLTIP\_ANTENNATYPE Property

The tooltip for the AntennaType.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string TOOLTIP\_ANTENNATYPE { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDeviceTooltips Class](#_4CBA3D87_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceTooltips.TOOLTIP\_BANDWIDTH\_HZ Property

The tooltip for the Bandwidth\_Hz.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string TOOLTIP\_BANDWIDTH\_HZ { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDeviceTooltips Class](#_4CBA3D87_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceTooltips.TOOLTIP\_CENTERFREQUENCY\_HZ Property

The tooltip for the CenterFrequency\_Hz.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string TOOLTIP\_CENTERFREQUENCY\_HZ { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDeviceTooltips Class](#_4CBA3D87_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceTooltips.TOOLTIP\_DEVICESOURCE Property

The tooltip for the DeviceSource.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string TOOLTIP\_DEVICESOURCE { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDeviceTooltips Class](#_4CBA3D87_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceTooltips.TOOLTIP\_GAIN\_DB Property

The tooltip for the Gain\_dB.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string TOOLTIP\_GAIN\_DB { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDeviceTooltips Class](#_4CBA3D87_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceTooltips.TOOLTIP\_ID Property

The tooltip for the Id.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string TOOLTIP\_ID { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDeviceTooltips Class](#_4CBA3D87_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceTooltips.TOOLTIP\_LATITUDE Property

The tooltip for the Latitude.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string TOOLTIP\_LATITUDE { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDeviceTooltips Class](#_4CBA3D87_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceTooltips.TOOLTIP\_LONGITUDE Property

The tooltip for the Longitude.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string TOOLTIP\_LONGITUDE { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDeviceTooltips Class](#_4CBA3D87_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceTooltips.TOOLTIP\_NAME Property

The tooltip for the Name.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string TOOLTIP\_NAME { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDeviceTooltips Class](#_4CBA3D87_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceTooltips.TOOLTIP\_PITCH Property

The tooltip for the Pitch.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string TOOLTIP\_PITCH { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDeviceTooltips Class](#_4CBA3D87_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceTooltips.TOOLTIP\_PRIMARYKEY Property

The tooltip for the PrimaryKey.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string TOOLTIP\_PRIMARYKEY { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDeviceTooltips Class](#_4CBA3D87_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceTooltips.TOOLTIP\_REMARK Property

The tooltip for the Remark.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string TOOLTIP\_REMARK { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDeviceTooltips Class](#_4CBA3D87_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceTooltips.TOOLTIP\_ROLL Property

The tooltip for the Roll.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string TOOLTIP\_ROLL { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDeviceTooltips Class](#_4CBA3D87_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceTooltips.TOOLTIP\_RXTXTYPE Property

The tooltip for the RxTxType.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string TOOLTIP\_RXTXTYPE { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDeviceTooltips Class](#_4CBA3D87_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceTooltips.TOOLTIP\_SIGNALTONOISERATIO\_DB Property

The tooltip for the SignalToNoiseRatio\_dB.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string TOOLTIP\_SIGNALTONOISERATIO\_DB { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDeviceTooltips Class](#_4CBA3D87_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceTooltips.TOOLTIP\_STARTTIME Property

The tooltip for the StartTime.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string TOOLTIP\_STARTTIME { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDeviceTooltips Class](#_4CBA3D87_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceTooltips.TOOLTIP\_XPOS Property

The tooltip for the XPos.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string TOOLTIP\_XPOS { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDeviceTooltips Class](#_4CBA3D87_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceTooltips.TOOLTIP\_YAW Property

The tooltip for the Yaw.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string TOOLTIP\_YAW { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDeviceTooltips Class](#_4CBA3D87_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceTooltips.TOOLTIP\_YPOS Property

The tooltip for the YPos.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string TOOLTIP\_YPOS { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDeviceTooltips Class](#_4CBA3D87_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceTooltips.TOOLTIP\_ZPOS Property

The tooltip for the ZPos.

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string TOOLTIP\_ZPOS { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[RFDeviceTooltips Class](#_4CBA3D87_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# RFDeviceTooltips.RFDeviceTooltips Methods

The [RFDeviceTooltips](#_4CBA3D87_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |

## See Also

[RFDeviceTooltips Class](#_4CBA3D87_Topic)

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# Servity Enumeration

**Namespace:** [SIGENCEScenarioTool.Models](#_7A4C6412_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public enum Servity |

## Members

|  |  |  |  |
| --- | --- | --- | --- |
|  | Member name | Value | Description |
|  | **Information** | 0 | The information |
|  | **Warning** | 1 | The warning |
|  | **Error** | 2 | The error |
|  | **Fatal** | 3 | The fatal |

## See Also

[SIGENCEScenarioTool.Models Namespace](#_7A4C6412_Topic)

# SIGENCEScenarioTool.Models.RxTxTypes Namespace

## Classes

|  |  |  |
| --- | --- | --- |
|  | Class | Description |
| Public class | [RxTxType](#_9F953706_Topic) | A class to encapsule an RxTxType. |
| Public class | [RxTxTypes](#_4DEA3706_Topic) | A class with all known RxTxTypes as static Property. |

# RxTxType Class

A class to encapsule an RxTxType.

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Models.RxTxTypes.RxTxType

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#_F175EFCF_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public sealed class RxTxType |

The **RxTxType** type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Name](#_11D9B133_Topic) | Gets the name. |
| Public property | [Remark](#_A9E65A6C_Topic) | Gets the remark. |
| Public property | [Value](#_D584CE90_Topic) | Gets the value. |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [ToString](#_3454E5CD_Topic) | Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance. (Overrides [Object.ToString()](http://msdn2.microsoft.com/en-us/library/7bxwbwt2).) |

## Operators

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public operatorStatic member | [Implicit(RxTxType to Int32)](#_9F054817_Topic) | Performs an implicit conversion from **RxTxType** to [Int32](http://msdn2.microsoft.com/en-us/library/td2s409d). |

## See Also

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxType.RxTxType Properties

The [RxTxType](#_9F953706_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Name](#_11D9B133_Topic) | Gets the name. |
| Public property | [Remark](#_A9E65A6C_Topic) | Gets the remark. |
| Public property | [Value](#_D584CE90_Topic) | Gets the value. |

## See Also

[RxTxType Class](#_9F953706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxType.Name Property

Gets the name.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#_F175EFCF_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string Name { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)  
The name.

## See Also

[RxTxType Class](#_9F953706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxType.Remark Property

Gets the remark.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#_F175EFCF_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string Remark { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)  
The remark.

## See Also

[RxTxType Class](#_9F953706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxType.Value Property

Gets the value.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#_F175EFCF_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public int Value { get; } |

#### Property Value

Type: [Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)  
The value.

## See Also

[RxTxType Class](#_9F953706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxType.RxTxType Methods

The [RxTxType](#_9F953706_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [ToString](#_3454E5CD_Topic) | Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance. (Overrides [Object.ToString()](http://msdn2.microsoft.com/en-us/library/7bxwbwt2).) |

## See Also

[RxTxType Class](#_9F953706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxType.ToString Method

Returns a [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#_F175EFCF_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public override string ToString() |

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)  
A [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf) that represents this instance.

## See Also

[RxTxType Class](#_9F953706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxType.RxTxType Type Conversions

The [RxTxType](#_9F953706_Topic) type exposes the following members.

## Operators

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public operatorStatic member | [Implicit(RxTxType to Int32)](#_9F054817_Topic) | Performs an implicit conversion from [RxTxType](#_9F953706_Topic) to [Int32](http://msdn2.microsoft.com/en-us/library/td2s409d). |

## See Also

[RxTxType Class](#_9F953706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxType Implicit Conversion (RxTxType to Int32)

Performs an implicit conversion from [RxTxType](#_9F953706_Topic) to [Int32](http://msdn2.microsoft.com/en-us/library/td2s409d).

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#_F175EFCF_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static implicit operator int (  RxTxType rtt ) |

#### Parameters

rtt

Type: [SIGENCEScenarioTool.Models.RxTxTypes.RxTxType](#_9F953706_Topic)

The RTT.

#### Return Value

Type: [Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)  
The result of the conversion.

## See Also

[RxTxType Class](#_9F953706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxTypes Class

A class with all known RxTxTypes as static Property.

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Models.RxTxTypes.RxTxTypes

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#_F175EFCF_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static class RxTxTypes |

The **RxTxTypes** type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public propertyStatic member | [AIS](#_9D2D8390_Topic) | AIS Signal. |
| Public propertyStatic member | [B200mini](#_B3174DAA_Topic) | Ettus B200mini. |
| Public propertyStatic member | [FMBroadcast](#_55F014DE_Topic) | This Is A Fm Broadcast Radio Transmitter (Awgn Noise Signal) With Input 20Khz Signal And 50Khz Bandwidth. |
| Public propertyStatic member | [GPSJammer](#_CADB6966_Topic) | 10MHz L1 GPS Jammer. |
| Public propertyStatic member | [HackRF](#_17EAA59C_Topic) | HackRF One. |
| Public propertyStatic member | [IdealSDR](#_F80F9530_Topic) | Ideal Sdr Receiver (Passes Signal Through). |
| Public propertyStatic member | [Iridium](#_B39629B5_Topic) | Iridium Satcom Transmitter. |
| Public propertyStatic member | [LTE](#_70353737_Topic) | LTE Signal. |
| Public propertyStatic member | [NFMRadio](#_6C09FD19_Topic) | Narrow Fm Band (Voice With 5Khz Bandwidth). |
| Public propertyStatic member | [QPSK](#_68C5B19D_Topic) | QPSK Signal With 2kHz Bandwidth. |
| Public propertyStatic member | [SIN](#_67908390_Topic) | This Is A Sine Generator A 500Hz Frequency. |
| Public propertyStatic member | [TwinRx](#_34B03B37_Topic) | Ettus X310 / TwinRx. |
| Public propertyStatic member | [Unknown](#_D009F19D_Topic) | Unknown RxTxType. |
| Public propertyStatic member | [Values](#_A034A2DD_Topic) | Gets the list with all RxTxType's. |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [FromInt](#_DABF9FDA_Topic) | Returns the RxTxType from a int value. |
| Public methodStatic member | [FromString](#_D622AD5_Topic) | Froms the string. |

## See Also

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxTypes.RxTxTypes Properties

The [RxTxTypes](#_4DEA3706_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public propertyStatic member | [AIS](#_9D2D8390_Topic) | AIS Signal. |
| Public propertyStatic member | [B200mini](#_B3174DAA_Topic) | Ettus B200mini. |
| Public propertyStatic member | [FMBroadcast](#_55F014DE_Topic) | This Is A Fm Broadcast Radio Transmitter (Awgn Noise Signal) With Input 20Khz Signal And 50Khz Bandwidth. |
| Public propertyStatic member | [GPSJammer](#_CADB6966_Topic) | 10MHz L1 GPS Jammer. |
| Public propertyStatic member | [HackRF](#_17EAA59C_Topic) | HackRF One. |
| Public propertyStatic member | [IdealSDR](#_F80F9530_Topic) | Ideal Sdr Receiver (Passes Signal Through). |
| Public propertyStatic member | [Iridium](#_B39629B5_Topic) | Iridium Satcom Transmitter. |
| Public propertyStatic member | [LTE](#_70353737_Topic) | LTE Signal. |
| Public propertyStatic member | [NFMRadio](#_6C09FD19_Topic) | Narrow Fm Band (Voice With 5Khz Bandwidth). |
| Public propertyStatic member | [QPSK](#_68C5B19D_Topic) | QPSK Signal With 2kHz Bandwidth. |
| Public propertyStatic member | [SIN](#_67908390_Topic) | This Is A Sine Generator A 500Hz Frequency. |
| Public propertyStatic member | [TwinRx](#_34B03B37_Topic) | Ettus X310 / TwinRx. |
| Public propertyStatic member | [Unknown](#_D009F19D_Topic) | Unknown RxTxType. |
| Public propertyStatic member | [Values](#_A034A2DD_Topic) | Gets the list with all RxTxType's. |

## See Also

[RxTxTypes Class](#_4DEA3706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxTypes.AIS Property

AIS Signal.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#_F175EFCF_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RxTxType AIS { get; } |

#### Property Value

Type: [RxTxType](#_9F953706_Topic)

## See Also

[RxTxTypes Class](#_4DEA3706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxTypes.B200mini Property

Ettus B200mini.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#_F175EFCF_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RxTxType B200mini { get; } |

#### Property Value

Type: [RxTxType](#_9F953706_Topic)

## See Also

[RxTxTypes Class](#_4DEA3706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxTypes.FMBroadcast Property

This Is A Fm Broadcast Radio Transmitter (Awgn Noise Signal) With Input 20Khz Signal And 50Khz Bandwidth.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#_F175EFCF_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RxTxType FMBroadcast { get; } |

#### Property Value

Type: [RxTxType](#_9F953706_Topic)

## See Also

[RxTxTypes Class](#_4DEA3706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxTypes.GPSJammer Property

10MHz L1 GPS Jammer.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#_F175EFCF_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RxTxType GPSJammer { get; } |

#### Property Value

Type: [RxTxType](#_9F953706_Topic)

## See Also

[RxTxTypes Class](#_4DEA3706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxTypes.HackRF Property

HackRF One.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#_F175EFCF_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RxTxType HackRF { get; } |

#### Property Value

Type: [RxTxType](#_9F953706_Topic)

## See Also

[RxTxTypes Class](#_4DEA3706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxTypes.IdealSDR Property

Ideal Sdr Receiver (Passes Signal Through).

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#_F175EFCF_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RxTxType IdealSDR { get; } |

#### Property Value

Type: [RxTxType](#_9F953706_Topic)

## See Also

[RxTxTypes Class](#_4DEA3706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxTypes.Iridium Property

Iridium Satcom Transmitter.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#_F175EFCF_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RxTxType Iridium { get; } |

#### Property Value

Type: [RxTxType](#_9F953706_Topic)

## See Also

[RxTxTypes Class](#_4DEA3706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxTypes.LTE Property

LTE Signal.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#_F175EFCF_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RxTxType LTE { get; } |

#### Property Value

Type: [RxTxType](#_9F953706_Topic)

## See Also

[RxTxTypes Class](#_4DEA3706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxTypes.NFMRadio Property

Narrow Fm Band (Voice With 5Khz Bandwidth).

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#_F175EFCF_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RxTxType NFMRadio { get; } |

#### Property Value

Type: [RxTxType](#_9F953706_Topic)

## See Also

[RxTxTypes Class](#_4DEA3706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxTypes.QPSK Property

QPSK Signal With 2kHz Bandwidth.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#_F175EFCF_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RxTxType QPSK { get; } |

#### Property Value

Type: [RxTxType](#_9F953706_Topic)

## See Also

[RxTxTypes Class](#_4DEA3706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxTypes.SIN Property

This Is A Sine Generator A 500Hz Frequency.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#_F175EFCF_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RxTxType SIN { get; } |

#### Property Value

Type: [RxTxType](#_9F953706_Topic)

## See Also

[RxTxTypes Class](#_4DEA3706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxTypes.TwinRx Property

Ettus X310 / TwinRx.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#_F175EFCF_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RxTxType TwinRx { get; } |

#### Property Value

Type: [RxTxType](#_9F953706_Topic)

## See Also

[RxTxTypes Class](#_4DEA3706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxTypes.Unknown Property

Unknown RxTxType.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#_F175EFCF_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RxTxType Unknown { get; } |

#### Property Value

Type: [RxTxType](#_9F953706_Topic)

## See Also

[RxTxTypes Class](#_4DEA3706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxTypes.Values Property

Gets the list with all RxTxType's.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#_F175EFCF_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static IReadOnlyCollection<RxTxType> Values { get; } |

#### Property Value

Type: [IReadOnlyCollection](http://msdn2.microsoft.com/en-us/library/hh881542)([RxTxType](#_9F953706_Topic))  
The values.

## See Also

[RxTxTypes Class](#_4DEA3706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxTypes.RxTxTypes Methods

The [RxTxTypes](#_4DEA3706_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [FromInt](#_DABF9FDA_Topic) | Returns the RxTxType from a int value. |
| Public methodStatic member | [FromString](#_D622AD5_Topic) | Froms the string. |

## See Also

[RxTxTypes Class](#_4DEA3706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxTypes.FromInt Method

Returns the RxTxType from a int value.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#_F175EFCF_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RxTxType FromInt(  int iRFDeviceId,  int iValue ) |

#### Parameters

iRFDeviceId

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

The rf device identifier.

iValue

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

The value.

#### Return Value

Type: [RxTxType](#_9F953706_Topic)

## Remarks

Because the RxTxType as integer is not unique, it is important to have the rfdeviceid to choose the right RxTxType.

## See Also

[RxTxTypes Class](#_4DEA3706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# RxTxTypes.FromString Method

Froms the string.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#_F175EFCF_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static RxTxType FromString(  string strName ) |

#### Parameters

strName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string.

#### Return Value

Type: [RxTxType](#_9F953706_Topic)

## See Also

[RxTxTypes Class](#_4DEA3706_Topic)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#_F175EFCF_Topic)

# SIGENCEScenarioTool.Models.Validation Namespace

## Classes

|  |  |  |
| --- | --- | --- |
|  | Class | Description |
| Public class | [ValidationResult](#_CD443B54_Topic) |  |
| Public class | [ValidationResultList](#_8FAADE5D_Topic) |  |

# ValidationResult Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Models.Validation.ValidationResult

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#_FA813258_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public sealed class ValidationResult |

The **ValidationResult** type exposes the following members.

## Constructors

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [ValidationResult](#_F72DF948_Topic) | Initializes a new instance of the **ValidationResult** class. |

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Id](#_AD5A35A8_Topic) | Gets the identifier. |
| Public property | [Message](#_664349FB_Topic) | Gets the message. |
| Public property | [PropertyName](#_7F73E0E1_Topic) | Gets the property. |
| Public property | [Servity](#_2D5FF179_Topic) | Gets the servity. |
| Public property | [Source](#_117110F8_Topic) | Gets the source. |
| Public property | [Timestamp](#_975001F7_Topic) | Gets the timestamp. |
| Public property | [Value](#_11371350_Topic) | Gets the value. |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |

## See Also

[SIGENCEScenarioTool.Models.Validation Namespace](#_FA813258_Topic)

# ValidationResult Constructor

Initializes a new instance of the [ValidationResult](#_CD443B54_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#_FA813258_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public ValidationResult(  Servity sServity,  string strMessage,  Object oSource,  string strPropertyName,  Object oValue ) |

#### Parameters

sServity

Type: [SIGENCEScenarioTool.Models.Servity](#_F41516A6_Topic)

The servity.

strMessage

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The message.

oSource

Type: [System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)

The source.

strPropertyName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the property.

oValue

Type: [System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)

The value.

## See Also

[ValidationResult Class](#_CD443B54_Topic)

[SIGENCEScenarioTool.Models.Validation Namespace](#_FA813258_Topic)

# ValidationResult.ValidationResult Properties

The [ValidationResult](#_CD443B54_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Id](#_AD5A35A8_Topic) | Gets the identifier. |
| Public property | [Message](#_664349FB_Topic) | Gets the message. |
| Public property | [PropertyName](#_7F73E0E1_Topic) | Gets the property. |
| Public property | [Servity](#_2D5FF179_Topic) | Gets the servity. |
| Public property | [Source](#_117110F8_Topic) | Gets the source. |
| Public property | [Timestamp](#_975001F7_Topic) | Gets the timestamp. |
| Public property | [Value](#_11371350_Topic) | Gets the value. |

## See Also

[ValidationResult Class](#_CD443B54_Topic)

[SIGENCEScenarioTool.Models.Validation Namespace](#_FA813258_Topic)

# ValidationResult.Id Property

Gets the identifier.

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#_FA813258_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public Guid Id { get; } |

#### Property Value

Type: [Guid](http://msdn2.microsoft.com/en-us/library/cey1zx63)  
The identifier.

## See Also

[ValidationResult Class](#_CD443B54_Topic)

[SIGENCEScenarioTool.Models.Validation Namespace](#_FA813258_Topic)

# ValidationResult.Message Property

Gets the message.

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#_FA813258_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string Message { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)  
The message.

## See Also

[ValidationResult Class](#_CD443B54_Topic)

[SIGENCEScenarioTool.Models.Validation Namespace](#_FA813258_Topic)

# ValidationResult.PropertyName Property

Gets the property.

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#_FA813258_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public string PropertyName { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)  
The property.

## See Also

[ValidationResult Class](#_CD443B54_Topic)

[SIGENCEScenarioTool.Models.Validation Namespace](#_FA813258_Topic)

# ValidationResult.Servity Property

Gets the servity.

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#_FA813258_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public Servity Servity { get; } |

#### Property Value

Type: [Servity](#_F41516A6_Topic)  
The servity.

## See Also

[ValidationResult Class](#_CD443B54_Topic)

[SIGENCEScenarioTool.Models.Validation Namespace](#_FA813258_Topic)

# ValidationResult.Source Property

Gets the source.

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#_FA813258_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public Object Source { get; } |

#### Property Value

Type: [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
The source.

## See Also

[ValidationResult Class](#_CD443B54_Topic)

[SIGENCEScenarioTool.Models.Validation Namespace](#_FA813258_Topic)

# ValidationResult.Timestamp Property

Gets the timestamp.

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#_FA813258_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public DateTime Timestamp { get; } |

#### Property Value

Type: [DateTime](http://msdn2.microsoft.com/en-us/library/03ybds8y)  
The timestamp.

## See Also

[ValidationResult Class](#_CD443B54_Topic)

[SIGENCEScenarioTool.Models.Validation Namespace](#_FA813258_Topic)

# ValidationResult.Value Property

Gets the value.

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#_FA813258_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public Object Value { get; } |

#### Property Value

Type: [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
The value.

## See Also

[ValidationResult Class](#_CD443B54_Topic)

[SIGENCEScenarioTool.Models.Validation Namespace](#_FA813258_Topic)

# ValidationResult.ValidationResult Methods

The [ValidationResult](#_CD443B54_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |

## See Also

[ValidationResult Class](#_CD443B54_Topic)

[SIGENCEScenarioTool.Models.Validation Namespace](#_FA813258_Topic)

# ValidationResultList Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  [System.Collections.Generic.List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic))  
    SIGENCEScenarioTool.Models.Validation.ValidationResultList

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#_FA813258_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public sealed class ValidationResultList : List<ValidationResult> |

The **ValidationResultList** type exposes the following members.

## Constructors

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [ValidationResultList](#_1276F6E3_Topic) | Initializes a new instance of the **ValidationResultList** class |

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Capacity](http://msdn2.microsoft.com/en-us/library/y52x03h2) | Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public property | [Count](http://msdn2.microsoft.com/en-us/library/27b47ht3) | Gets the number of elements contained in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public propertyStatic member | [Empty](#_AE7C620E_Topic) | Gets the empty. |
| Public property | [Item](http://msdn2.microsoft.com/en-us/library/0ebtbkkc) | Gets or sets the element at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Add(T)](http://msdn2.microsoft.com/en-us/library/3wcytfd1) | Adds an object to the end of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Add(Servity, String, Object, String, Object)](#_CDE8C9A9_Topic) | Adds the specified validation. |
| Public method | [AddRange](http://msdn2.microsoft.com/en-us/library/z883w3dc) | Adds the elements of the specified collection to the end of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [AsReadOnly](http://msdn2.microsoft.com/en-us/library/e78dcd75) | Returns a read-only [IList(T)](http://msdn2.microsoft.com/en-us/library/5y536ey6) wrapper for the current collection. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [BinarySearch(T)](http://msdn2.microsoft.com/en-us/library/w4e7fxsh) | Searches the entire sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the default comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [BinarySearch(T, IComparer(T))](http://msdn2.microsoft.com/en-us/library/ftfdbfx6) | Searches the entire sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the specified comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [BinarySearch(Int32, Int32, T, IComparer(T))](http://msdn2.microsoft.com/en-us/library/a1s5syxa) | Searches a range of elements in the sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the specified comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Clear](http://msdn2.microsoft.com/en-us/library/dwb5h52a) | Removes all elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Contains](http://msdn2.microsoft.com/en-us/library/bhkz42b3) | Determines whether an element is in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [ConvertAll(TOutput)](http://msdn2.microsoft.com/en-us/library/73fe8cwf) | Converts the elements in the current [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to another type, and returns a list containing the converted elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [CopyTo(T[])](http://msdn2.microsoft.com/en-us/library/t69dktcd) | Copies the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the beginning of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [CopyTo(T[], Int32)](http://msdn2.microsoft.com/en-us/library/4df7xky9) | Copies the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [CopyTo(Int32,T[], Int32, Int32)](http://msdn2.microsoft.com/en-us/library/3eb2b9x8) | Copies a range of elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [Exists](http://msdn2.microsoft.com/en-us/library/bfed8bca) | Determines whether the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) contains elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Find](http://msdn2.microsoft.com/en-us/library/x0b5b5bc) | Searches for an element that matches the conditions defined by the specified predicate, and returns the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [FindAll](http://msdn2.microsoft.com/en-us/library/fh1w7y8z) | Retrieves all the elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [FindIndex(Predicate(T))](http://msdn2.microsoft.com/en-us/library/x1xzf2ca) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [FindIndex(Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/efasdh0s) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the specified index to the last element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [FindIndex(Int32, Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/7eb596wz) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that starts at the specified index and contains the specified number of elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [FindLast](http://msdn2.microsoft.com/en-us/library/5kthb929) | Searches for an element that matches the conditions defined by the specified predicate, and returns the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [FindLastIndex(Predicate(T))](http://msdn2.microsoft.com/en-us/library/xzs5503w) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [FindLastIndex(Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/0b9t5061) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the first element to the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [FindLastIndex(Int32, Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/860a771k) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that contains the specified number of elements and ends at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [ForEach](http://msdn2.microsoft.com/en-us/library/bwabdf9z) | Performs the specified action on each element of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [GetEnumerator](http://msdn2.microsoft.com/en-us/library/b0yss765) | Returns an enumerator that iterates through the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetRange](http://msdn2.microsoft.com/en-us/library/21k0e39c) | Creates a shallow copy of a range of elements in the source [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IndexOf(T)](http://msdn2.microsoft.com/en-us/library/e4w08k17) | Searches for the specified object and returns the zero-based index of the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [IndexOf(T, Int32)](http://msdn2.microsoft.com/en-us/library/s8t42k5w) | Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the specified index to the last element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [IndexOf(T, Int32, Int32)](http://msdn2.microsoft.com/en-us/library/dy8zse0c) | Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that starts at the specified index and contains the specified number of elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Insert](http://msdn2.microsoft.com/en-us/library/sey5k5z4) | Inserts an element into the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [InsertRange](http://msdn2.microsoft.com/en-us/library/884ee1fz) | Inserts the elements of a collection into the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [LastIndexOf(T)](http://msdn2.microsoft.com/en-us/library/dsxfcba1) | Searches for the specified object and returns the zero-based index of the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [LastIndexOf(T, Int32)](http://msdn2.microsoft.com/en-us/library/s088xd6w) | Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the first element to the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [LastIndexOf(T, Int32, Int32)](http://msdn2.microsoft.com/en-us/library/haast0bw) | Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that contains the specified number of elements and ends at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Remove](http://msdn2.microsoft.com/en-us/library/cd666k3e) | Removes the first occurrence of a specific object from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [RemoveAll](http://msdn2.microsoft.com/en-us/library/wdka673a) | Removes all the elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [RemoveAt](http://msdn2.microsoft.com/en-us/library/5cw9x18z) | Removes the element at the specified index of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [RemoveRange](http://msdn2.microsoft.com/en-us/library/y33yd2b5) | Removes a range of elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Reverse()](http://msdn2.microsoft.com/en-us/library/b0axc2h2) | Reverses the order of the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Reverse(Int32, Int32)](http://msdn2.microsoft.com/en-us/library/hf2ay11y) | Reverses the order of the elements in the specified range. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Sort()](http://msdn2.microsoft.com/en-us/library/b0zbh7b6) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the default comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Sort(IComparer(T))](http://msdn2.microsoft.com/en-us/library/234b841s) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Sort(Comparison(T))](http://msdn2.microsoft.com/en-us/library/w56d4y5z) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified [Comparison(T)](http://msdn2.microsoft.com/en-us/library/tfakywbh). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Sort(Int32, Int32, IComparer(T))](http://msdn2.microsoft.com/en-us/library/8ce6t5ad) | Sorts the elements in a range of elements in [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [ToArray](http://msdn2.microsoft.com/en-us/library/x303t819) | Copies the elements of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a new array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [TrimExcess](http://msdn2.microsoft.com/en-us/library/ms132207) | Sets the capacity to the actual number of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19), if that number is less than a threshold value. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [TrueForAll](http://msdn2.microsoft.com/en-us/library/kdxe4x4w) | Determines whether every element in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) matches the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |

## Extension Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public Extension Method | [SaveAsCsv(ValidationResult)](#_E6A752FD_Topic) | Saves the list as CSV. (Defined by [ListExtension](#_CD56FF2D_Topic).) |

## See Also

[SIGENCEScenarioTool.Models.Validation Namespace](#_FA813258_Topic)

**[!:System.Collections.Generic.List<SIGENCEScenarioTool.Models.Validation.ValidationResult>]**

# ValidationResultList Constructor

Initializes a new instance of the [ValidationResultList](#_8FAADE5D_Topic) class

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#_FA813258_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public ValidationResultList() |

## See Also

[ValidationResultList Class](#_8FAADE5D_Topic)

[SIGENCEScenarioTool.Models.Validation Namespace](#_FA813258_Topic)

# ValidationResultList.ValidationResultList Properties

The [ValidationResultList](#_8FAADE5D_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [Capacity](http://msdn2.microsoft.com/en-us/library/y52x03h2) | Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public property | [Count](http://msdn2.microsoft.com/en-us/library/27b47ht3) | Gets the number of elements contained in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public propertyStatic member | [Empty](#_AE7C620E_Topic) | Gets the empty. |
| Public property | [Item](http://msdn2.microsoft.com/en-us/library/0ebtbkkc) | Gets or sets the element at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |

## See Also

[ValidationResultList Class](#_8FAADE5D_Topic)

[SIGENCEScenarioTool.Models.Validation Namespace](#_FA813258_Topic)

# ValidationResultList.Empty Property

Gets the empty.

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#_FA813258_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static ValidationResultList Empty { get; } |

#### Property Value

Type: [ValidationResultList](#_8FAADE5D_Topic)  
The empty.

## See Also

[ValidationResultList Class](#_8FAADE5D_Topic)

[SIGENCEScenarioTool.Models.Validation Namespace](#_FA813258_Topic)

# ValidationResultList.ValidationResultList Methods

The [ValidationResultList](#_8FAADE5D_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Add(T)](http://msdn2.microsoft.com/en-us/library/3wcytfd1) | Adds an object to the end of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Add(Servity, String, Object, String, Object)](#_CDE8C9A9_Topic) | Adds the specified validation. |
| Public method | [AddRange](http://msdn2.microsoft.com/en-us/library/z883w3dc) | Adds the elements of the specified collection to the end of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [AsReadOnly](http://msdn2.microsoft.com/en-us/library/e78dcd75) | Returns a read-only [IList(T)](http://msdn2.microsoft.com/en-us/library/5y536ey6) wrapper for the current collection. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [BinarySearch(T)](http://msdn2.microsoft.com/en-us/library/w4e7fxsh) | Searches the entire sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the default comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [BinarySearch(T, IComparer(T))](http://msdn2.microsoft.com/en-us/library/ftfdbfx6) | Searches the entire sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the specified comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [BinarySearch(Int32, Int32, T, IComparer(T))](http://msdn2.microsoft.com/en-us/library/a1s5syxa) | Searches a range of elements in the sorted [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) for an element using the specified comparer and returns the zero-based index of the element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Clear](http://msdn2.microsoft.com/en-us/library/dwb5h52a) | Removes all elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Contains](http://msdn2.microsoft.com/en-us/library/bhkz42b3) | Determines whether an element is in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [ConvertAll(TOutput)](http://msdn2.microsoft.com/en-us/library/73fe8cwf) | Converts the elements in the current [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to another type, and returns a list containing the converted elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [CopyTo(T[])](http://msdn2.microsoft.com/en-us/library/t69dktcd) | Copies the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the beginning of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [CopyTo(T[], Int32)](http://msdn2.microsoft.com/en-us/library/4df7xky9) | Copies the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [CopyTo(Int32,T[], Int32, Int32)](http://msdn2.microsoft.com/en-us/library/3eb2b9x8) | Copies a range of elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [Exists](http://msdn2.microsoft.com/en-us/library/bfed8bca) | Determines whether the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) contains elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Find](http://msdn2.microsoft.com/en-us/library/x0b5b5bc) | Searches for an element that matches the conditions defined by the specified predicate, and returns the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [FindAll](http://msdn2.microsoft.com/en-us/library/fh1w7y8z) | Retrieves all the elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [FindIndex(Predicate(T))](http://msdn2.microsoft.com/en-us/library/x1xzf2ca) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [FindIndex(Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/efasdh0s) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the specified index to the last element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [FindIndex(Int32, Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/7eb596wz) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that starts at the specified index and contains the specified number of elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [FindLast](http://msdn2.microsoft.com/en-us/library/5kthb929) | Searches for an element that matches the conditions defined by the specified predicate, and returns the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [FindLastIndex(Predicate(T))](http://msdn2.microsoft.com/en-us/library/xzs5503w) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [FindLastIndex(Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/0b9t5061) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the first element to the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [FindLastIndex(Int32, Int32, Predicate(T))](http://msdn2.microsoft.com/en-us/library/860a771k) | Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that contains the specified number of elements and ends at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [ForEach](http://msdn2.microsoft.com/en-us/library/bwabdf9z) | Performs the specified action on each element of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [GetEnumerator](http://msdn2.microsoft.com/en-us/library/b0yss765) | Returns an enumerator that iterates through the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetRange](http://msdn2.microsoft.com/en-us/library/21k0e39c) | Creates a shallow copy of a range of elements in the source [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [IndexOf(T)](http://msdn2.microsoft.com/en-us/library/e4w08k17) | Searches for the specified object and returns the zero-based index of the first occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [IndexOf(T, Int32)](http://msdn2.microsoft.com/en-us/library/s8t42k5w) | Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the specified index to the last element. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [IndexOf(T, Int32, Int32)](http://msdn2.microsoft.com/en-us/library/dy8zse0c) | Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that starts at the specified index and contains the specified number of elements. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Insert](http://msdn2.microsoft.com/en-us/library/sey5k5z4) | Inserts an element into the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [InsertRange](http://msdn2.microsoft.com/en-us/library/884ee1fz) | Inserts the elements of a collection into the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [LastIndexOf(T)](http://msdn2.microsoft.com/en-us/library/dsxfcba1) | Searches for the specified object and returns the zero-based index of the last occurrence within the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [LastIndexOf(T, Int32)](http://msdn2.microsoft.com/en-us/library/s088xd6w) | Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that extends from the first element to the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [LastIndexOf(T, Int32, Int32)](http://msdn2.microsoft.com/en-us/library/haast0bw) | Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) that contains the specified number of elements and ends at the specified index. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Remove](http://msdn2.microsoft.com/en-us/library/cd666k3e) | Removes the first occurrence of a specific object from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [RemoveAll](http://msdn2.microsoft.com/en-us/library/wdka673a) | Removes all the elements that match the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [RemoveAt](http://msdn2.microsoft.com/en-us/library/5cw9x18z) | Removes the element at the specified index of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [RemoveRange](http://msdn2.microsoft.com/en-us/library/y33yd2b5) | Removes a range of elements from the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Reverse()](http://msdn2.microsoft.com/en-us/library/b0axc2h2) | Reverses the order of the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Reverse(Int32, Int32)](http://msdn2.microsoft.com/en-us/library/hf2ay11y) | Reverses the order of the elements in the specified range. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Sort()](http://msdn2.microsoft.com/en-us/library/b0zbh7b6) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the default comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Sort(IComparer(T))](http://msdn2.microsoft.com/en-us/library/234b841s) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Sort(Comparison(T))](http://msdn2.microsoft.com/en-us/library/w56d4y5z) | Sorts the elements in the entire [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified [Comparison(T)](http://msdn2.microsoft.com/en-us/library/tfakywbh). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Sort(Int32, Int32, IComparer(T))](http://msdn2.microsoft.com/en-us/library/8ce6t5ad) | Sorts the elements in a range of elements in [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) using the specified comparer. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [ToArray](http://msdn2.microsoft.com/en-us/library/x303t819) | Copies the elements of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) to a new array. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [TrimExcess](http://msdn2.microsoft.com/en-us/library/ms132207) | Sets the capacity to the actual number of elements in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19), if that number is less than a threshold value. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [TrueForAll](http://msdn2.microsoft.com/en-us/library/kdxe4x4w) | Determines whether every element in the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19) matches the conditions defined by the specified predicate. (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |

## Extension Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public Extension Method | [SaveAsCsv(ValidationResult)](#_E6A752FD_Topic) | Saves the list as CSV. (Defined by [ListExtension](#_CD56FF2D_Topic).) |

## See Also

[ValidationResultList Class](#_8FAADE5D_Topic)

[SIGENCEScenarioTool.Models.Validation Namespace](#_FA813258_Topic)

# ValidationResultList.Add Method

## Overload List

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Add(T)](http://msdn2.microsoft.com/en-us/library/3wcytfd1) | Adds an object to the end of the [List(T)](http://msdn2.microsoft.com/en-us/library/6sh2ey19). (Inherited from [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([ValidationResult](#_CD443B54_Topic)).) |
| Public method | [Add(Servity, String, Object, String, Object)](#_CDE8C9A9_Topic) | Adds the specified validation. |

## See Also

[ValidationResultList Class](#_8FAADE5D_Topic)

[SIGENCEScenarioTool.Models.Validation Namespace](#_FA813258_Topic)

# ValidationResultList.Add Method (Servity, String, Object, String, Object)

Adds the specified validation.

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#_FA813258_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public void Add(  Servity sServity,  string strMessage,  Object oSource,  string strPropertyName,  Object oValue ) |

#### Parameters

sServity

Type: [SIGENCEScenarioTool.Models.Servity](#_F41516A6_Topic)

The s servity.

strMessage

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The string message.

oSource

Type: [System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)

The o source.

strPropertyName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string property.

oValue

Type: [System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)

The o value.

## See Also

[ValidationResultList Class](#_8FAADE5D_Topic)

[Add Overload](#_4FD1C7D8_Topic)

[SIGENCEScenarioTool.Models.Validation Namespace](#_FA813258_Topic)

# SIGENCEScenarioTool.Tools Namespace

## Classes

|  |  |  |
| --- | --- | --- |
|  | Class | Description |
| Public class | [Blink](#_82532D5D_Topic) |  |
| Public class | [GeoHelper](#_E88BD479_Topic) |  |
| Public class | [MB](#_EFB0CB26_Topic) | Helper For A MessageBox. |
| Public class | [PythonSyntaxModeFileProvider](#_CE10FF45_Topic) |  |
| Public class | [Speech](#_F645CEA_Topic) | Klasse zum Ausgeben von Text in Sprache mittels Microsoft SAM. |
| Public class | [Tool](#_4A0B04CA_Topic) | Klasse mit statischen Standalonefunktionen. |
| Public class | [Windows](#_B5EEF90C_Topic) |  |

## Enumerations

|  |  |  |
| --- | --- | --- |
|  | Enumeration | Description |
| Public enumeration | [GeoTag](#_A0CA15FA_Topic) |  |
| Public enumeration | [Highway](#_16289656_Topic) |  |

# Blink Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Tools.Blink

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static class Blink |

The **Blink** type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [FadeWhiteToBlack](#_22CAC641_Topic) | Fades the white to black. |
| Public methodStatic member | [Off](#_AEDDF605_Topic) | Offs the LED. |
| Public methodStatic member | [On](#_6AAE6DE3_Topic) | Ons the LED. |
| Public methodStatic member | [SetColor(Color)](#_FC1893F5_Topic) | Sets the color. |
| Public methodStatic member | [SetColor(Int32, Int32, Int32)](#_B6363F28_Topic) | Sets the color. |
| Public methodStatic member | [Show](#_EDF06D50_Topic) | Shows the specified number of time. |
| Public methodStatic member | [Test](#_7E063D1F_Topic) | Tests this instance. |

## See Also

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Blink.Blink Methods

The [Blink](#_82532D5D_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [FadeWhiteToBlack](#_22CAC641_Topic) | Fades the white to black. |
| Public methodStatic member | [Off](#_AEDDF605_Topic) | Offs the LED. |
| Public methodStatic member | [On](#_6AAE6DE3_Topic) | Ons the LED. |
| Public methodStatic member | [SetColor(Color)](#_FC1893F5_Topic) | Sets the color. |
| Public methodStatic member | [SetColor(Int32, Int32, Int32)](#_B6363F28_Topic) | Sets the color. |
| Public methodStatic member | [Show](#_EDF06D50_Topic) | Shows the specified number of time. |
| Public methodStatic member | [Test](#_7E063D1F_Topic) | Tests this instance. |

## See Also

[Blink Class](#_82532D5D_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Blink.FadeWhiteToBlack Method

Fades the white to black.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void FadeWhiteToBlack() |

## See Also

[Blink Class](#_82532D5D_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Blink.Off Method

Offs the LED.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void Off() |

## See Also

[Blink Class](#_82532D5D_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Blink.On Method

Ons the LED.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void On() |

## See Also

[Blink Class](#_82532D5D_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Blink.SetColor Method

## Overload List

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [SetColor(Color)](#_FC1893F5_Topic) | Sets the color. |
| Public methodStatic member | [SetColor(Int32, Int32, Int32)](#_B6363F28_Topic) | Sets the color. |

## See Also

[Blink Class](#_82532D5D_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Blink.SetColor Method (Color)

Sets the color.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void SetColor(  Color c ) |

#### Parameters

c

Type: [System.Windows.Media.Color](http://msdn2.microsoft.com/en-us/library/ms653055)

The c.

## See Also

[Blink Class](#_82532D5D_Topic)

[SetColor Overload](#_28D2B37F_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Blink.SetColor Method (Int32, Int32, Int32)

Sets the color.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void SetColor(  int iR,  int iG,  int iB ) |

#### Parameters

iR

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

The i r.

iG

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

The i g.

iB

Type: [System.Int32](http://msdn2.microsoft.com/en-us/library/td2s409d)

The i b.

## See Also

[Blink Class](#_82532D5D_Topic)

[SetColor Overload](#_28D2B37F_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Blink.Show Method

Shows the specified number of time.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void Show(  ushort numberOfTime,  ushort numberOfMillisecondOn,  ushort numberOfMillisecondOff,  Color c ) |

#### Parameters

numberOfTime

Type: [System.UInt16](http://msdn2.microsoft.com/en-us/library/s6eyk10z)

The number of time.

numberOfMillisecondOn

Type: [System.UInt16](http://msdn2.microsoft.com/en-us/library/s6eyk10z)

The number of millisecond on.

numberOfMillisecondOff

Type: [System.UInt16](http://msdn2.microsoft.com/en-us/library/s6eyk10z)

The number of millisecond off.

c

Type: [System.Windows.Media.Color](http://msdn2.microsoft.com/en-us/library/ms653055)

The c.

## See Also

[Blink Class](#_82532D5D_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Blink.Test Method

Tests this instance.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void Test() |

## See Also

[Blink Class](#_82532D5D_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# GeoHelper Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Tools.GeoHelper

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static class GeoHelper |

The **GeoHelper** type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [CoordinateToPointLatLng](#_3C2CBEEB_Topic) |  |
| Public methodStatic member | [CreatePolygon](#_3A18A07F_Topic) |  |
| Public methodStatic member | [GeometryToString](#_6FA266F7_Topic) |  |
| Public methodStatic member | [StringToGeometry](#_A3BF671F_Topic) |  |

## Fields

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public fieldStatic member | [GERMANY\_CENTERPOINT](#_BAFCC562_Topic) |  |

## See Also

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# GeoHelper.GeoHelper Methods

The [GeoHelper](#_E88BD479_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [CoordinateToPointLatLng](#_3C2CBEEB_Topic) |  |
| Public methodStatic member | [CreatePolygon](#_3A18A07F_Topic) |  |
| Public methodStatic member | [GeometryToString](#_6FA266F7_Topic) |  |
| Public methodStatic member | [StringToGeometry](#_A3BF671F_Topic) |  |

## See Also

[GeoHelper Class](#_E88BD479_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# GeoHelper.CoordinateToPointLatLng Method

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static PointLatLng CoordinateToPointLatLng(  Coordinate c ) |

#### Parameters

c

Type: **Coordinate**

#### Return Value

Type: **PointLatLng**

## See Also

[GeoHelper Class](#_E88BD479_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# GeoHelper.CreatePolygon Method

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Polygon CreatePolygon(  params Point[] points ) |

#### Parameters

points

Type: **Point**[]

#### Return Value

Type: **Polygon**

## See Also

[GeoHelper Class](#_E88BD479_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# GeoHelper.GeometryToString Method

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string GeometryToString(  IGeometry geo ) |

#### Parameters

geo

Type: **IGeometry**

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[GeoHelper Class](#_E88BD479_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# GeoHelper.StringToGeometry Method

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static IGeometry StringToGeometry(  string strWKBAsString ) |

#### Parameters

strWKBAsString

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

#### Return Value

Type: **IGeometry**

## See Also

[GeoHelper Class](#_E88BD479_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# GeoHelper.GeoHelper Fields

The [GeoHelper](#_E88BD479_Topic) type exposes the following members.

## Fields

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public fieldStatic member | [GERMANY\_CENTERPOINT](#_BAFCC562_Topic) |  |

## See Also

[GeoHelper Class](#_E88BD479_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# GeoHelper.GERMANY\_CENTERPOINT Field

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly Point GERMANY\_CENTERPOINT |

#### Field Value

Type: **Point**

## See Also

[GeoHelper Class](#_E88BD479_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# GeoTag Enumeration

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public enum GeoTag |

## Members

|  |  |  |  |
| --- | --- | --- | --- |
|  | Member name | Value | Description |
|  | **Aeroway** | 0 |  |
|  | **Amenity** | 1 |  |
|  | **Craft** | 2 |  |
|  | **Emergency** | 3 |  |
|  | **Leisure** | 4 |  |
|  | **Man\_Made** | 5 |  |
|  | **Military** | 6 |  |
|  | **Place** | 7 |  |
|  | **Power** | 8 |  |
|  | **Shop** | 9 |  |
|  | **Vending** | 10 |  |

## See Also

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Highway Enumeration

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public enum Highway |

## Members

|  |  |  |  |
| --- | --- | --- | --- |
|  | Member name | Value | Description |
|  | **Motorway** | 0 | Autobahn https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dmotorway |
|  | **Trunk** | 1 | Autobahnähnliche Straße https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dtrunk |
|  | **Primary** | 2 | Bundesstraße https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dprimary |
|  | **Secondary** | 3 | Landes-, (Staats-,) oder sehr gut ausgebaute Kreisstraße https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dsecondary |
|  | **Tertiary** | 4 | Kreisstraße, sehr gut ausgebaute Gemeindeverbindungsstraße https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dtertiary |
|  | **Unclassified** | 5 | Öffentlich befahrbare Nebenstraßen mit einfachstem Ausbauzustand, typischerweise keine Mittellinie https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dunclassified |
|  | **Residential** | 6 | Straße an und in Wohngebieten, die keiner anderen Straßenklasse angehört (unclassified, tertiary, secondary, primary) https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dresidential |
|  | **Service** | 7 | Erschließungsweg zu oder innerhalb von Einrichtungen wie Sportanlagen, Stränden, Autobahnraststätten oder allgemein zu Gebäuden. Wird auch für den Zugang zu Parkplätzen oder Recyclinghöfen benutzt. https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dservice |
|  | **Motorway\_Link** | 8 | https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dmotorway\_link |
|  | **Trunk\_Link** | 9 | https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dtrunk\_link |
|  | **Primary\_Link** | 10 | https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dprimary\_link |
|  | **Secondary\_Link** | 11 | https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dsecondary\_link |
|  | **Tertiary\_Link** | 12 | https://wiki.openstreetmap.org/wiki/Tag:highway%3Dtertiary\_link |

## See Also

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# MB Class

Helper For A MessageBox.

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Tools.MB

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static class MB |

The **MB** type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [Error](#_F4F47ACD_Topic) | Errors the specified ex. |
| Public methodStatic member | [HereIAm](#_C6CC79FD_Topic) | Heres the i am. |
| Public methodStatic member | [Information(String)](#_1440853_Topic) | Informations the specified string information text. |
| Public methodStatic member | [Information(String,Object[])](#_BD57EE8B_Topic) | Informations the specified string format. |
| Public methodStatic member | [NotYetImplemented](#_7355FBB_Topic) | Nots the yet implemented. |
| Public methodStatic member | [Warning(String)](#_5754C18D_Topic) | Warnings the specified string information text. |
| Public methodStatic member | [Warning(String,Object[])](#_4B3DFFAC_Topic) | Warnings the specified string format. |

## See Also

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# MB.MB Methods

The [MB](#_EFB0CB26_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [Error](#_F4F47ACD_Topic) | Errors the specified ex. |
| Public methodStatic member | [HereIAm](#_C6CC79FD_Topic) | Heres the i am. |
| Public methodStatic member | [Information(String)](#_1440853_Topic) | Informations the specified string information text. |
| Public methodStatic member | [Information(String,Object[])](#_BD57EE8B_Topic) | Informations the specified string format. |
| Public methodStatic member | [NotYetImplemented](#_7355FBB_Topic) | Nots the yet implemented. |
| Public methodStatic member | [Warning(String)](#_5754C18D_Topic) | Warnings the specified string information text. |
| Public methodStatic member | [Warning(String,Object[])](#_4B3DFFAC_Topic) | Warnings the specified string format. |

## See Also

[MB Class](#_EFB0CB26_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# MB.Error Method

Errors the specified ex.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void Error(  Exception ex,  string strCallerName = null ) |

#### Parameters

ex

Type: [System.Exception](http://msdn2.microsoft.com/en-us/library/c18k6c59)

The ex.

strCallerName (Optional)

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string caller.

## See Also

[MB Class](#_EFB0CB26_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# MB.HereIAm Method

Heres the i am.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void HereIAm(  string strCallerName = null ) |

#### Parameters

strCallerName (Optional)

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string caller.

## See Also

[MB Class](#_EFB0CB26_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# MB.Information Method

## Overload List

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [Information(String)](#_1440853_Topic) | Informations the specified string information text. |
| Public methodStatic member | [Information(String,Object[])](#_BD57EE8B_Topic) | Informations the specified string format. |

## See Also

[MB Class](#_EFB0CB26_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# MB.Information Method (String)

Informations the specified string information text.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void Information(  string strInformationText ) |

#### Parameters

strInformationText

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The string information text.

## See Also

[MB Class](#_EFB0CB26_Topic)

[Information Overload](#_5BB93BC3_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# MB.Information Method (String, Object[])

Informations the specified string format.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void Information(  string strFormat,  params Object[] param ) |

#### Parameters

strFormat

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The string format.

param

Type: [System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)[]

The parameter.

## See Also

[MB Class](#_EFB0CB26_Topic)

[Information Overload](#_5BB93BC3_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# MB.NotYetImplemented Method

Nots the yet implemented.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void NotYetImplemented(  string strCallerName = null ) |

#### Parameters

strCallerName (Optional)

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string caller.

## See Also

[MB Class](#_EFB0CB26_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# MB.Warning Method

## Overload List

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [Warning(String)](#_5754C18D_Topic) | Warnings the specified string information text. |
| Public methodStatic member | [Warning(String,Object[])](#_4B3DFFAC_Topic) | Warnings the specified string format. |

## See Also

[MB Class](#_EFB0CB26_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# MB.Warning Method (String)

Warnings the specified string information text.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void Warning(  string strInformationText ) |

#### Parameters

strInformationText

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The string information text.

## See Also

[MB Class](#_EFB0CB26_Topic)

[Warning Overload](#_119117D9_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# MB.Warning Method (String, Object[])

Warnings the specified string format.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void Warning(  string strFormat,  params Object[] param ) |

#### Parameters

strFormat

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The string format.

param

Type: [System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)[]

The parameter.

## See Also

[MB Class](#_EFB0CB26_Topic)

[Warning Overload](#_119117D9_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# PythonSyntaxModeFileProvider Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Tools.PythonSyntaxModeFileProvider

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public sealed class PythonSyntaxModeFileProvider : ISyntaxModeFileProvider |

The **PythonSyntaxModeFileProvider** type exposes the following members.

## Constructors

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [PythonSyntaxModeFileProvider](#_BFDD351E_Topic) | Initializes a new instance of the **PythonSyntaxModeFileProvider** class. |

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [SyntaxModes](#_9C5F9652_Topic) | Gets the syntax modes. |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetSyntaxModeFile](#_1F381E56_Topic) | Gets the syntax mode file. |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [UpdateSyntaxModeList](#_A6192D74_Topic) | Updates the syntax mode list. |

## See Also

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# PythonSyntaxModeFileProvider Constructor

Initializes a new instance of the [PythonSyntaxModeFileProvider](#_CE10FF45_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public PythonSyntaxModeFileProvider() |

## See Also

[PythonSyntaxModeFileProvider Class](#_CE10FF45_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# PythonSyntaxModeFileProvider.PythonSyntaxModeFileProvider Properties

The [PythonSyntaxModeFileProvider](#_CE10FF45_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [SyntaxModes](#_9C5F9652_Topic) | Gets the syntax modes. |

## See Also

[PythonSyntaxModeFileProvider Class](#_CE10FF45_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# PythonSyntaxModeFileProvider.SyntaxModes Property

Gets the syntax modes.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public ICollection<SyntaxMode> SyntaxModes { get; } |

#### Property Value

Type: [ICollection](http://msdn2.microsoft.com/en-us/library/92t2ye13)(**SyntaxMode**)

#### Implements

**ISyntaxModeFileProvider.SyntaxModes**

## See Also

[PythonSyntaxModeFileProvider Class](#_CE10FF45_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# PythonSyntaxModeFileProvider.PythonSyntaxModeFileProvider Methods

The [PythonSyntaxModeFileProvider](#_CE10FF45_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetSyntaxModeFile](#_1F381E56_Topic) | Gets the syntax mode file. |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [UpdateSyntaxModeList](#_A6192D74_Topic) | Updates the syntax mode list. |

## See Also

[PythonSyntaxModeFileProvider Class](#_CE10FF45_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# PythonSyntaxModeFileProvider.GetSyntaxModeFile Method

Gets the syntax mode file.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public XmlTextReader GetSyntaxModeFile(  SyntaxMode syntaxMode ) |

#### Parameters

syntaxMode

Type: **SyntaxMode**

The syntax mode.

#### Return Value

Type: [XmlTextReader](http://msdn2.microsoft.com/en-us/library/7hh47ty4)

#### Implements

**ISyntaxModeFileProvider.GetSyntaxModeFile(SyntaxMode)**

## See Also

[PythonSyntaxModeFileProvider Class](#_CE10FF45_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# PythonSyntaxModeFileProvider.UpdateSyntaxModeList Method

Updates the syntax mode list.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public void UpdateSyntaxModeList() |

#### Implements

ISyntaxModeFileProvider.UpdateSyntaxModeList()

## See Also

[PythonSyntaxModeFileProvider Class](#_CE10FF45_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Speech Class

Klasse zum Ausgeben von Text in Sprache mittels Microsoft SAM.

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Tools.Speech

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public sealed class Speech : IDisposable |

The **Speech** type exposes the following members.

## Constructors

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Speech](#_4651A57B_Topic) | Initializes a new instance of the **Speech** class. |

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [State](#_855E4592_Topic) | Gets the state. |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Dispose](#_A50661D0_Topic) | Führt anwendungsspezifische Aufgaben durch, die mit der Freigabe, der Zurückgabe oder dem Zurücksetzen von nicht verwalteten Ressourcen zusammenhängen. |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public methodStatic member | [Say](#_F51E7A89_Topic) | Says the specified string content. |
| Public method | [Speak](#_39E9450E_Topic) | Gibt den übergebenen Text aus. |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |

## See Also

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Speech Constructor

Initializes a new instance of the [Speech](#_F645CEA_Topic) class.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public Speech() |

## See Also

[Speech Class](#_F645CEA_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Speech.Speech Properties

The [Speech](#_F645CEA_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public property | [State](#_855E4592_Topic) | Gets the state. |

## See Also

[Speech Class](#_F645CEA_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Speech.State Property

Gets the state.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public SynthesizerState State { get; } |

#### Property Value

Type: [SynthesizerState](http://msdn2.microsoft.com/en-us/library/ms596257)  
The state.

## See Also

[Speech Class](#_F645CEA_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Speech.Speech Methods

The [Speech](#_F645CEA_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public method | [Dispose](#_A50661D0_Topic) | Führt anwendungsspezifische Aufgaben durch, die mit der Freigabe, der Zurückgabe oder dem Zurücksetzen von nicht verwalteten Ressourcen zusammenhängen. |
| Public method | [Equals](http://msdn2.microsoft.com/en-us/library/bsc2ak47) | Determines whether the specified object is equal to the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetHashCode](http://msdn2.microsoft.com/en-us/library/zdee4b3y) | Serves as the default hash function. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public method | [GetType](http://msdn2.microsoft.com/en-us/library/dfwy45w9) | Gets the [Type](http://msdn2.microsoft.com/en-us/library/42892f65) of the current instance. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |
| Public methodStatic member | [Say](#_F51E7A89_Topic) | Says the specified string content. |
| Public method | [Speak](#_39E9450E_Topic) | Gibt den übergebenen Text aus. |
| Public method | [ToString](http://msdn2.microsoft.com/en-us/library/7bxwbwt2) | Returns a string that represents the current object. (Inherited from [Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b).) |

## See Also

[Speech Class](#_F645CEA_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Speech.Dispose Method

Führt anwendungsspezifische Aufgaben durch, die mit der Freigabe, der Zurückgabe oder dem Zurücksetzen von nicht verwalteten Ressourcen zusammenhängen.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public void Dispose() |

#### Implements

[IDisposable.Dispose()](http://msdn2.microsoft.com/en-us/library/es4s3w1d)

## See Also

[Speech Class](#_F645CEA_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Speech.Say Method

Says the specified string content.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void Say(  string strContent ) |

#### Parameters

strContent

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Content of the string.

## See Also

[Speech Class](#_F645CEA_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Speech.Speak Method

Gibt den übergebenen Text aus.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public void Speak(  string strContent ) |

#### Parameters

strContent

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Content of the string.

## See Also

[Speech Class](#_F645CEA_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Tool Class

Klasse mit statischen Standalonefunktionen.

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Tools.Tool

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static class Tool |

The **Tool** type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public propertyStatic member | [ProductName](#_C9591452_Topic) | Gets the name of the product. |
| Public propertyStatic member | [ProductTitle](#_847BB91F_Topic) | Gets the product title. |
| Public propertyStatic member | [StartupPath](#_22D2660D_Topic) | Gets the startup path. |
| Public propertyStatic member | [Version](#_A3727C21_Topic) | Gets the version. |

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [GetGrad](#_B767F68_Topic) | Gets the grad. |
| Public methodStatic member | [GetGradMinutesSeconds](#_A2960EDB_Topic) | Gets the grad minutes seconds. |
| Public methodStatic member | [GetHumanDistance](#_C2D9DDF9_Topic) | Gets the human distance. |
| Public methodStatic member | [GetHumanSize](#_31561ACE_Topic) | Gets the size of the human. |
| Public methodStatic member | [ReadResourceAsString](#_663D9494_Topic) | Reads the resource as string. |

## Fields

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public fieldStatic member | [ALLCHARS](#_91F94C3E_Topic) | The allchars |
| Public fieldStatic member | [ALLPANGRAMS](#_8537039B_Topic) | The allpangrams |
| Public fieldStatic member | [FOX](#_6366784A_Topic) | The quick brown fox jumps over a lazy dog. |
| Public fieldStatic member | [FRANZ](#_8436EE98_Topic) | Franz jagt im komplett verwahrlosten Taxi quer durch Bayern. |
| Public fieldStatic member | [WILFRIED](#_7D8701BE_Topic) | Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln. |
| Public fieldStatic member | [XYLOPHONMUSIK](#_CDEE0D06_Topic) | Falsches Üben von Xylophonmusik quält jeden größeren Zwerg. |

## See Also

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Tool.Tool Properties

The [Tool](#_4A0B04CA_Topic) type exposes the following members.

## Properties

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public propertyStatic member | [ProductName](#_C9591452_Topic) | Gets the name of the product. |
| Public propertyStatic member | [ProductTitle](#_847BB91F_Topic) | Gets the product title. |
| Public propertyStatic member | [StartupPath](#_22D2660D_Topic) | Gets the startup path. |
| Public propertyStatic member | [Version](#_A3727C21_Topic) | Gets the version. |

## See Also

[Tool Class](#_4A0B04CA_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Tool.ProductName Property

Gets the name of the product.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string ProductName { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)  
The name of the product.

## See Also

[Tool Class](#_4A0B04CA_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Tool.ProductTitle Property

Gets the product title.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string ProductTitle { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)  
The product title.

## See Also

[Tool Class](#_4A0B04CA_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Tool.StartupPath Property

Gets the startup path.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string StartupPath { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)  
The startup path.

## See Also

[Tool Class](#_4A0B04CA_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Tool.Version Property

Gets the version.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string Version { get; } |

#### Property Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)  
The version.

## See Also

[Tool Class](#_4A0B04CA_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Tool.Tool Methods

The [Tool](#_4A0B04CA_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [GetGrad](#_B767F68_Topic) | Gets the grad. |
| Public methodStatic member | [GetGradMinutesSeconds](#_A2960EDB_Topic) | Gets the grad minutes seconds. |
| Public methodStatic member | [GetHumanDistance](#_C2D9DDF9_Topic) | Gets the human distance. |
| Public methodStatic member | [GetHumanSize](#_31561ACE_Topic) | Gets the size of the human. |
| Public methodStatic member | [ReadResourceAsString](#_663D9494_Topic) | Reads the resource as string. |

## See Also

[Tool Class](#_4A0B04CA_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Tool.GetGrad Method

Gets the grad.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static double GetGrad(  double grad,  double minutes,  double seconds ) |

#### Parameters

grad

Type: [System.Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

The grad.

minutes

Type: [System.Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

The minutes.

seconds

Type: [System.Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

The seconds.

#### Return Value

Type: [Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

## See Also

[Tool Class](#_4A0B04CA_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Tool.GetGradMinutesSeconds Method

Gets the grad minutes seconds.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string GetGradMinutesSeconds(  double grad ) |

#### Parameters

grad

Type: [System.Double](http://msdn2.microsoft.com/en-us/library/643eft0t)

The grad.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[Tool Class](#_4A0B04CA_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Tool.GetHumanDistance Method

Gets the human distance.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string GetHumanDistance(  long lLengthInMeter ) |

#### Parameters

lLengthInMeter

Type: [System.Int64](http://msdn2.microsoft.com/en-us/library/6yy583ek)

The l length in meter.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[Tool Class](#_4A0B04CA_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Tool.GetHumanSize Method

Gets the size of the human.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string GetHumanSize(  long lSizeInBytes ) |

#### Parameters

lSizeInBytes

Type: [System.Int64](http://msdn2.microsoft.com/en-us/library/6yy583ek)

The l size in bytes.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[Tool Class](#_4A0B04CA_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Tool.ReadResourceAsString Method

Reads the resource as string.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static string ReadResourceAsString(  string strResourceName ) |

#### Parameters

strResourceName

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

Name of the string resource.

#### Return Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[Tool Class](#_4A0B04CA_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Tool.Tool Fields

The [Tool](#_4A0B04CA_Topic) type exposes the following members.

## Fields

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public fieldStatic member | [ALLCHARS](#_91F94C3E_Topic) | The allchars |
| Public fieldStatic member | [ALLPANGRAMS](#_8537039B_Topic) | The allpangrams |
| Public fieldStatic member | [FOX](#_6366784A_Topic) | The quick brown fox jumps over a lazy dog. |
| Public fieldStatic member | [FRANZ](#_8436EE98_Topic) | Franz jagt im komplett verwahrlosten Taxi quer durch Bayern. |
| Public fieldStatic member | [WILFRIED](#_7D8701BE_Topic) | Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln. |
| Public fieldStatic member | [XYLOPHONMUSIK](#_CDEE0D06_Topic) | Falsches Üben von Xylophonmusik quält jeden größeren Zwerg. |

## See Also

[Tool Class](#_4A0B04CA_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Tool.ALLCHARS Field

The allchars

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly string ALLCHARS |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[Tool Class](#_4A0B04CA_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Tool.ALLPANGRAMS Field

The allpangrams

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly List<string> ALLPANGRAMS |

#### Field Value

Type: [List](http://msdn2.microsoft.com/en-us/library/6sh2ey19)([String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf))

## See Also

[Tool Class](#_4A0B04CA_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Tool.FOX Field

The quick brown fox jumps over a lazy dog.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly string FOX |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[Tool Class](#_4A0B04CA_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Tool.FRANZ Field

Franz jagt im komplett verwahrlosten Taxi quer durch Bayern.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly string FRANZ |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[Tool Class](#_4A0B04CA_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Tool.WILFRIED Field

Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly string WILFRIED |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[Tool Class](#_4A0B04CA_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Tool.XYLOPHONMUSIK Field

Falsches Üben von Xylophonmusik quält jeden größeren Zwerg.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static readonly string XYLOPHONMUSIK |

#### Field Value

Type: [String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

## See Also

[Tool Class](#_4A0B04CA_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Windows Class

## Inheritance Hierarchy

[System.Object](http://msdn2.microsoft.com/en-us/library/e5kfa45b)  
  SIGENCEScenarioTool.Tools.Windows

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static class Windows |

The **Windows** type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [GetWPFScreenshot](#_D01D8846_Topic) | Gets the WPF screenshot. |
| Public methodStatic member | [OpenWebAdress](#_A651E63C_Topic) | Opens the web adress. |
| Public methodStatic member | [OpenWithDefaultApplication(FileInfo)](#_361477BD_Topic) | Opens the with default application. |
| Public methodStatic member | [OpenWithDefaultApplication(String)](#_74601230_Topic) | Opens the with default application. |
| Public methodStatic member | [SaveWPFScreenshot](#_A232286_Topic) | Saves the WPF screenshot. |

## See Also

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Windows.Windows Methods

The [Windows](#_B5EEF90C_Topic) type exposes the following members.

## Methods

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [GetWPFScreenshot](#_D01D8846_Topic) | Gets the WPF screenshot. |
| Public methodStatic member | [OpenWebAdress](#_A651E63C_Topic) | Opens the web adress. |
| Public methodStatic member | [OpenWithDefaultApplication(FileInfo)](#_361477BD_Topic) | Opens the with default application. |
| Public methodStatic member | [OpenWithDefaultApplication(String)](#_74601230_Topic) | Opens the with default application. |
| Public methodStatic member | [SaveWPFScreenshot](#_A232286_Topic) | Saves the WPF screenshot. |

## See Also

[Windows Class](#_B5EEF90C_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Windows.GetWPFScreenshot Method

Gets the WPF screenshot.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static BitmapSource GetWPFScreenshot(  Control control,  Nullable<int> iWidth = null,  Nullable<int> iHeight = null ) |

#### Parameters

control

Type: [System.Windows.Controls.Control](http://msdn2.microsoft.com/en-us/library/ms609826)

The control.

iWidth (Optional)

Type: [System.Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d))

Width of the i.

iHeight (Optional)

Type: [System.Nullable](http://msdn2.microsoft.com/en-us/library/b3h38hb0)([Int32](http://msdn2.microsoft.com/en-us/library/td2s409d))

Height of the i.

#### Return Value

Type: [BitmapSource](http://msdn2.microsoft.com/en-us/library/ms653387)

## See Also

[Windows Class](#_B5EEF90C_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Windows.OpenWebAdress Method

Opens the web adress.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Process OpenWebAdress(  string strURL ) |

#### Parameters

strURL

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The STR URL.

#### Return Value

Type: [Process](http://msdn2.microsoft.com/en-us/library/ccf1tfx0)

## See Also

[Windows Class](#_B5EEF90C_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Windows.OpenWithDefaultApplication Method

## Overload List

|  |  |  |
| --- | --- | --- |
|  | Name | Description |
| Public methodStatic member | [OpenWithDefaultApplication(FileInfo)](#_361477BD_Topic) | Opens the with default application. |
| Public methodStatic member | [OpenWithDefaultApplication(String)](#_74601230_Topic) | Opens the with default application. |

## See Also

[Windows Class](#_B5EEF90C_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Windows.OpenWithDefaultApplication Method (FileInfo)

Opens the with default application.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Process OpenWithDefaultApplication(  FileInfo fiFile ) |

#### Parameters

fiFile

Type: [System.IO.FileInfo](http://msdn2.microsoft.com/en-us/library/akth6b1k)

The fi file.

#### Return Value

Type: [Process](http://msdn2.microsoft.com/en-us/library/ccf1tfx0)

## See Also

[Windows Class](#_B5EEF90C_Topic)

[OpenWithDefaultApplication Overload](#_2B6E7ED8_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Windows.OpenWithDefaultApplication Method (String)

Opens the with default application.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static Process OpenWithDefaultApplication(  string strFile ) |

#### Parameters

strFile

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The STR file.

#### Return Value

Type: [Process](http://msdn2.microsoft.com/en-us/library/ccf1tfx0)

## See Also

[Windows Class](#_B5EEF90C_Topic)

[OpenWithDefaultApplication Overload](#_2B6E7ED8_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)

# Windows.SaveWPFScreenshot Method

Saves the WPF screenshot.

**Namespace:** [SIGENCEScenarioTool.Tools](#_2928EBE7_Topic)  
**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

## Syntax

|  |
| --- |
| C# |
| public static void SaveWPFScreenshot(  BitmapSource screenshot,  string strOutputFilename ) |

#### Parameters

screenshot

Type: [System.Windows.Media.Imaging.BitmapSource](http://msdn2.microsoft.com/en-us/library/ms653387)

The screenshot.

strOutputFilename

Type: [System.String](http://msdn2.microsoft.com/en-us/library/s1wwdcbf)

The string output filename.

## See Also

[Windows Class](#_B5EEF90C_Topic)

[SIGENCEScenarioTool.Tools Namespace](#_2928EBE7_Topic)