

2018

# SIGENCE Scenario Tool Library

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## SIGENCEScenarioTool.Database.SQLite Namespace

### Classes

	<b>Class</b>	<b>Description</b>
	<a href="#"><u>SQLiteHelper</u></a>	
	<a href="#"><u>SQLiteMemoryDatabase</u></a>	

## SQLiteHelper Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Database.SQLite.SQLiteHelper

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#)

**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
 	<a href="#">GetDbType</a>	Gets the type of the database.
 	<a href="#">GetNativeType</a>	Gets the type of the native.
 	<a href="#">GetSQLiteColumn</a>	Gets the sq lite column.
 	<a href="#">GetSQLiteParameter</a>	Gets the sq lite parameter.

### Fields

	Name	Description
 	<a href="#">TypeMapping</a>	The type mapping

### See Also

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

## SQLiteHelper.SQLiteHelper Methods

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

### Methods

	Name	Description
	<a href="#">GetDbType</a>	Gets the type of the database.
	<a href="#">GetNativeType</a>	Gets the type of the native.
	<a href="#">GetSQLiteColumn</a>	Gets the sq lite column.
	<a href="#">GetSQLiteParameter</a>	Gets the sq lite parameter.

### See Also

[SQLiteHelper Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

## SQLiteHelper.GetDbType Method

Gets the type of the database.

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#)

**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](#)

Type of the string SQL.

#### Return Value

Type: [DbType](#)

### See Also

[SQLiteHelper Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

## SQLiteHelper.GetNativeType Method

Gets the type of the native.

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#)

**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](#)

Type of the string SQL.

### Return Value

Type: [Type](#)

### See Also

[SQLiteHelper Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

## SQLiteHelper.GetSQLiteColumn Method

Gets the sq lite column.

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#)

**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](#)

The t.

### Return Value

Type: [String](#)

### See Also

[SQLiteHelper Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

## SQLiteHelper.GetSQLiteParameter Method

Gets the sq lite parameter.

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#)

**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](#)

The pi.

### Return Value

Type: **SQLiteParameter**

### See Also

[SQLiteHelper Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

## SQLiteHelper.SQLiteHelper Fields

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

### Fields

	Name	Description
 <b>s</b>	<a href="#">TypeMapping</a>	The type mapping

### See Also

[SQLiteHelper Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

## SQLiteHelper.TypeMapping Field

The type mapping

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#)

**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\(Type, Tuple\(String, DbType, Boolean\)\)](#)

### See Also

[SQLiteHelper Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

## SQLiteMemoryDatabase Class

### Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Database.SQLite.SQLiteMemoryDatabase

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#)

**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
	<a href="#">SQLiteMemoryDatabase</a>	Initializes a new instance of the <b>SQLiteMemoryDatabase</b> class.

### Properties

	Name	Description
	<a href="#">Connection</a>	Gets the connection.

### Methods

	Name	Description
	<a href="#">Dispose</a>	Führt anwendungsspezifische Aufgaben durch, die mit der Freigabe, der Zurückgabe oder dem Zurücksetzen von nicht verwalteten Ressourcen zusammenhängen.
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Finalizes an instance of the <b>SQLiteMemoryDatabase</b> class. (Overrides <a href="#">Object.Finalize()</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Load(FileInfo)</a>	Loads the specified fi.
	<a href="#">Load(String)</a>	Loads the specified string filename.
	<a href="#">Save(FileInfo, Boolean, Boolean)</a>	Saves the specified fi.
	<a href="#">Save(String, Boolean, Boolean)</a>	Saves the specified string filename.

 <a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
--	--

## Operators

	Name	Description
	<a href="#">Implicit(SQLiteMemoryDatabase to SQLiteConnection)</a>	Performs an implicit conversion from <b>SQLiteMemoryDatabase</b> to <b>SQLiteConnection</b> .

## See Also

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

[System.IDisposable](#)

## SQLiteMemoryDatabase Constructor

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

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public SQLiteMemoryDatabase()
```

### See Also

[SQLiteMemoryDatabase Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

## [SQLiteMemoryDatabase](#).[SQLiteMemoryDatabase](#) Properties

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

### Properties

	<b>Name</b>	<b>Description</b>
	<a href="#">Connection</a>	Gets the connection.

### See Also

[SQLiteMemoryDatabase Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

## SQLiteMemoryDatabase.Connection Property

Gets the connection.

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#)

**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](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

## SQLiteMemoryDatabase.SQLiteMemoryDatabase Methods

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

### Methods

	Name	Description
	<a href="#">Dispose</a>	Führt anwendungsspezifische Aufgaben durch, die mit der Freigabe, der Zurückgabe oder dem Zurücksetzen von nicht verwalteten Ressourcen zusammenhängen.
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Finalizes an instance of the <a href="#">SQLiteMemoryDatabase</a> class. (Overrides <a href="#">Object.Finalize()</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Load(FileInfo)</a>	Loads the specified fi.
	<a href="#">Load(String)</a>	Loads the specified string filename.
	<a href="#">Save(FileInfo, Boolean, Boolean)</a>	Saves the specified fi.
	<a href="#">Save(String, Boolean, Boolean)</a>	Saves the specified string filename.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

### See Also

[SQLiteMemoryDatabase Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

## 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](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public void Dispose()
```

*Implements*

[IDisposable.Dispose\(\)](#)

### See Also

[SQLiteMemoryDatabase Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

## SQLiteMemoryDatabase.Finalize Method

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

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
protected override void Finalize()
```

*Implements*

[Object.Finalize\(\)](#)

### See Also

[SQLiteMemoryDatabase Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

## SQLiteMemoryDatabase.Load Method

### Overload List

	Name	Description
	<a href="#">Load(FileInfo)</a>	Loads the specified fi.
	<a href="#">Load(String)</a>	Loads the specified string filename.

### See Also

[SQLiteMemoryDatabase Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

## SQLiteMemoryDatabase.Load Method (FileInfo)

Loads the specified fi.

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#)

**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](#)

The fi.

### Return Value

Type: [Boolean](#)

### See Also

[SQLiteMemoryDatabase Class](#)

[Load Overload](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

## SQLiteMemoryDatabase.Load Method (String)

Loads the specified string filename.

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#)

**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](#)

The string filename.

### Return Value

Type: [Boolean](#)

### See Also

[SQLiteMemoryDatabase Class](#)

[Load Overload](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

## SQLiteMemoryDatabase.Save Method

### Overload List

	<b>Name</b>	<b>Description</b>
	<a href="#">Save(FileInfo, Boolean, Boolean)</a>	Saves the specified fi.
	<a href="#">Save(String, Boolean, Boolean)</a>	Saves the specified string filename.

### See Also

[SQLiteMemoryDatabase Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

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

Saves the specified fi.

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#)

**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](#)

The fi.

*bOverWrite* (Optional)

Type: [System.Boolean](#)

if set to `true` [b over write].

*bCleanWrite* (Optional)

Type: [System.Boolean](#)

if set to `true` [b clean write].

### Return Value

Type: [Boolean](#)

### See Also

[SQLiteMemoryDatabase Class](#)

[Save Overload](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

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

Saves the specified string filename.

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#)

**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](#)

The string filename.

#### bOverWrite (Optional)

Type: [System.Boolean](#)

if set to `true` [b over write].

#### bCleanWrite (Optional)

Type: [System.Boolean](#)

if set to `true` [b clean write].

### Return Value

Type: [Boolean](#)

### See Also

[SQLiteMemoryDatabase Class](#)

[Save Overload](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

## SQLiteMemoryDatabase.SQLiteMemoryDatabase Type Conversions

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

### Operators

	Name	Description
 	<a href="#">Implicit(SQLiteMemoryDatabase to SQLiteConnection)</a>	Performs an implicit conversion from <a href="#">SQLiteMemoryDatabase</a> to <a href="#">SQLiteConnection</a> .

### See Also

[SQLiteMemoryDatabase Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

## SQLiteMemoryDatabase Implicit Conversion (SQLiteMemoryDatabase to SQLiteConnection)

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

**Namespace:** [SIGENCEScenarioTool.Database.SQLite](#)

**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](#)

The memdb.

### Return Value

Type: [SQLiteConnection](#)

The result of the conversion.

### See Also

[SQLiteMemoryDatabase Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

## SIGENCEScenarioTool.Datatypes Namespace

### Classes

	<b>Class</b>	<b>Description</b>
	<a href="#">DataTypeBase(T)</a>	
	<a href="#">UnitPrefix</a>	
	<a href="#">UnitPrefixs</a>	

## [DataTypeBase\(T\) Class](#)

### Inheritance Hierarchy

[System.Object](#)

[SIGENCEScenarioTool.Datatypes.DataTypeBase\(T\)](#)  
[SIGENCEScenarioTool.Datatypes.Geo.Altitude](#)  
[SIGENCEScenarioTool.Datatypes.Geo.Latitude](#)  
[SIGENCEScenarioTool.Datatypes.Geo.Longitude](#)  
[SIGENCEScenarioTool.Datatypes.Physically.Bandwidth](#)  
[SIGENCEScenarioTool.Datatypes.Physically.Frequency](#)  
[SIGENCEScenarioTool.Datatypes.Physically.Gain](#)  
[SIGENCEScenarioTool.Datatypes.Physically.SignalToNoiseRatio](#)

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**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
	<a href="#">DataTypeBase(T)</a>	Initializes a new instance of the <code>DataTypeBase(T)</code> class.

### Properties

	Name	Description
	<a href="#">Value</a>	Gets or sets the value.

### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)

 <a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
 <a href="#">IsValid</a>	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.
 <a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
 <a href="#">ToString</a>	Returns a <a href="#">String</a> that represents this instance. (Overrides <a href="#">Object.ToString()</a> .)

## Operators

	<b>Name</b>	<b>Description</b>
 <a href="#">Implicit(DataTypeBase(T)to T)</a>	Liefert den Wert als den generischen Typ zurück.	

## Fields

	<b>Name</b>	<b>Description</b>
 <a href="#">CULTUREINFO</a>	The ci	

## See Also

[SIGENCEScenarioTool.Datatypes Namespace](#)

## [DataTypeBase\(\*T\*\) Constructor](#)

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

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public DataTypeBase(  
    T value  
)
```

### Parameters

*value*

Type: *T*

The value.

### See Also

[DataTypeBase\(\*T\*\)Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## **DataTypeBase(*T*).DataTypeBase(*T*) Properties**

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

### Properties

	<b>Name</b>	<b>Description</b>
	<a href="#">Value</a>	Gets or sets the value.

### See Also

[DataTypeBase\(\*T\*\)Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## [DataTypeBase\(\*T\*\).Value](#) Property

Gets or sets the value.

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public T Value { get; set; }
```

### *Property Value*

Type: *T*

The value in it's default SI Einheit.

### See Also

[DataTypeBase\(\*T\*\)Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## **DataTypeBase(*T*).DataTypeBase(*T*) Methods**

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

### Methods

	<b>Name</b>	<b>Description</b>
 <a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)	
 <a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)	
 <a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)	
 <a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)	
 <a href="#">IsValid</a>	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.	
 <a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)	
 <a href="#">ToString</a>	Returns a <a href="#">String</a> that represents this instance. (Overrides <a href="#">Object.ToString()</a> .)	

### See Also

[DataTypeBase\(\*T\*\)Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## [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](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public abstract Nullable<bool> IsValid()
```

#### *Return Value*

Type: [Nullable\(Boolean\)](#)

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](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## **DataTypeBase(*T*).ToString Method**

Returns a [String](#) that represents this instance.

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public override string ToString()
```

### *Return Value*

Type: [String](#)

A [String](#) that represents this instance.

### See Also

[DataTypeBase\(\*T\*\)Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

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

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

### Operators

	Name	Description
 	<a href="#">Implicit(DataTypeBase(T)to T)</a>	Liefert den Wert als den generischen Typ zurück.

### See Also

[DataTypeBase\(T\)Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## [DataTypeBase\(\*T\*\) Implicit Conversion \(DataTypeBase\(\*T\*\) to \*T\*\)](#)

Liefert den Wert als den generischen Typ zurück.

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**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\(\*T\*\)](#)

The apb.

### Return Value

Type: *T*

The result of the conversion.

### See Also

[DataTypeBase\(\*T\*\)Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## **DataTypeBase(*T*).DataTypeBase(*T*) Fields**

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

### Fields

	<b>Name</b>	<b>Description</b>
 	<a href="#">CULTUREINFO</a>	The ci

### See Also

[DataTypeBase\(\*T\*\)Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## [DataTypeBase\(\*T\*\).CULTUREINFO](#) Field

The ci

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
protected static readonly CultureInfo CULTUREINFO
```

*Field Value*

Type: [CultureInfo](#)

### See Also

[DataTypeBase\(\*T\*\)Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## UnitPrefix Class

### Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Datatypes.UnitPrefix

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**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
	<a href="#">UnitPrefix</a>	Initializes a new instance of the <b>UnitPrefix</b> class.

### Properties

	Name	Description
	<a href="#">Factor</a>	Gets or sets the factor.
	<a href="#">Name</a>	Gets or sets the name.
	<a href="#">Symbol</a>	Gets or sets the symbol.

### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

### See Also

[SIGENCEScenarioTool.Datatypes Namespace](#)

## UnitPrefix Constructor

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

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**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](#)

Name of the string.

*strSymbol*

Type: [System.String](#)

The string symbol.

*dFactor*

Type: [System.Double](#)

The d factor.

### See Also

[UnitPrefix Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## UnitPrefix.UnitPrefix Properties

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

### Properties

	Name	Description
	<a href="#">Factor</a>	Gets or sets the factor.
	<a href="#">Name</a>	Gets or sets the name.
	<a href="#">Symbol</a>	Gets or sets the symbol.

### See Also

[UnitPrefix Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## UnitPrefix.Factor Property

Gets or sets the factor.

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public double Factor { get; }
```

### Property Value

Type: [Double](#)

The factor.

### See Also

[UnitPrefix Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## UnitPrefix.Name Property

Gets or sets the name.

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public string Name { get; }
```

### Property Value

Type: [String](#)

The name.

### See Also

[UnitPrefix Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## UnitPrefix.Symbol Property

Gets or sets the symbol.

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public string Symbol { get; }
```

### Property Value

Type: [String](#)

The symbol.

### See Also

[UnitPrefix Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## UnitPrefix.UnitPrefix Methods

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

### Methods

	Name	Description
 <a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)	
 <a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)	
 <a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)	
 <a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)	

### See Also

[UnitPrefix Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## UnitPrefixs Class

### Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Datatypes.UnitPrefixs

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**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
	<a href="#">UnitPrefixs</a>	Initializes a new instance of the <b>UnitPrefixs</b> class

### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

### Fields

	Name	Description
	<a href="#">Atto</a>	The atto
	<a href="#">Default</a>	The default
	<a href="#">Exa</a>	The exa
	<a href="#">Femto</a>	The femto
	<a href="#">Giga</a>	The giga
	<a href="#">Kilo</a>	The kilo
	<a href="#">Mega</a>	The mega
	<a href="#">Mikro</a>	The mikro
	<a href="#">Milli</a>	The milli

 <a href="#"><u>Nano</u></a>	The nano
 <a href="#"><u>Peta</u></a>	The peta
 <a href="#"><u>Piko</u></a>	The piko
 <a href="#"><u>Tera</u></a>	The tera

See Also

[SIGENCEScenarioTool.Datatypes Namespace](#)

## UnitPrefixs Constructor

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

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public UnitPrefixs()
```

### See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## UnitPrefixs.UnitPrefixs Methods

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

### Methods

	Name	Description
 	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
 	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
 	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
 	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

### See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## UnitPrefixs.UnitPrefixs Fields

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

### Fields

	Name	Description
 <b>s</b>	<a href="#">Atto</a>	The atto
 <b>S</b>	<a href="#">Default</a>	The default
 <b>s</b>	<a href="#">Exa</a>	The exa
 <b>s</b>	<a href="#">Femto</a>	The femto
 <b>s</b>	<a href="#">Giga</a>	The giga
 <b>s</b>	<a href="#">Kilo</a>	The kilo
 <b>s</b>	<a href="#">Mega</a>	The mega
 <b>s</b>	<a href="#">Mikro</a>	The mikro
 <b>s</b>	<a href="#">Milli</a>	The milli
 <b>s</b>	<a href="#">Nano</a>	The nano
 <b>s</b>	<a href="#">Peta</a>	The peta
 <b>s</b>	<a href="#">Piko</a>	The piko
 <b>s</b>	<a href="#">Tera</a>	The tera

### See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## UnitPrefixs.Atto Field

The atto

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

C#

```
public static readonly UnitPrefix Atto
```

*Field Value*

Type: [UnitPrefix](#)

### See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## UnitPrefixs.Default Field

The default

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public static readonly UnitPrefix Default
```

*Field Value*

Type: [UnitPrefix](#)

### See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## UnitPrefixs.Exa Field

The exa

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

C#

```
public static readonly UnitPrefix Exa
```

*Field Value*

Type: [UnitPrefix](#)

### See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## UnitPrefixs.Femto Field

The femto

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

C#

```
public static readonly UnitPrefix Femto
```

*Field Value*

Type: [UnitPrefix](#)

### See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## UnitPrefixs.Giga Field

The giga

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static readonly UnitPrefix Giga
```

*Field Value*

Type: [UnitPrefix](#)

### See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## UnitPrefixs.Kilo Field

The kilo

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

C#

```
public static readonly UnitPrefix Kilo
```

*Field Value*

Type: [UnitPrefix](#)

### See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## UnitPrefixs.Mega Field

The mega

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

C#

```
public static readonly UnitPrefix Mega
```

*Field Value*

Type: [UnitPrefix](#)

### See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## UnitPrefixs.Mikro Field

The mikro

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static readonly UnitPrefix Mikro
```

*Field Value*

Type: [UnitPrefix](#)

### See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## UnitPrefixs.Milli Field

The milli

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

C#

```
public static readonly UnitPrefix Milli
```

*Field Value*

Type: [UnitPrefix](#)

### See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## UnitPrefixs.Nano Field

The nano

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

C#

```
public static readonly UnitPrefix Nano
```

*Field Value*

Type: [UnitPrefix](#)

### See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## UnitPrefixs.Peta Field

The peta

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

C#

```
public static readonly UnitPrefix Peta
```

*Field Value*

Type: [UnitPrefix](#)

### See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## UnitPrefixs.Piko Field

The piko

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

C#

```
public static readonly UnitPrefix Piko
```

*Field Value*

Type: [UnitPrefix](#)

### See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## UnitPrefixs.Tera Field

The tera

**Namespace:** [SIGENCEScenarioTool.Datatypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

C#

```
public static readonly UnitPrefix Tera
```

*Field Value*

Type: [UnitPrefix](#)

### See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

## SIGENCEScenarioTool.Datatypes.Geo Namespace

### Classes

	<b>Class</b>	<b>Description</b>
	<a href="#"><u>Altitude</u></a>	
	<a href="#"><u>GeoNode</u></a>	
	<a href="#"><u>GeoNodeCollection</u></a>	
	<a href="#"><u>Latitude</u></a>	
	<a href="#"><u>Longitude</u></a>	

## Altitude Class

Inheritance Hierarchy

[System.Object](#)

[SIGENCEScenarioTool.Datatypes.DataTypeBase\(Int32\)](#)

SIGENCEScenarioTool.Datatypes.Geo.Altitude

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#)

**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
	<a href="#">Altitude</a>	Initializes a new instance of the <b>Altitude</b> class.

### Properties

	Name	Description
	<a href="#">Value</a>	Gets or sets the value. (Inherited from <a href="#">DataTypeBase(T)</a> .)

### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">IsValid</a>	Returns true if ... is valid. (Overrides <a href="#">DataTypeBase(T).IsValid()</a> .)
	<a href="#">ToString</a>	Returns a <a href="#">String</a> that represents this instance. (Inherited from <a href="#">DataTypeBase(T)</a> .)

### Operators

	Name	Description
	<a href="#">Implicit(Int32 to Altitude)</a>	Performs an implicit conversion from <a href="#">Int32</a> to <b>Altitude</b> .

### See Also

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

[!:[SIGENCEScenarioTool.Datatypes.DataTypeBase<int>](#)]



## Altitude Constructor

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

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public Altitude(  
    int value  
)
```

### Parameters

*value*

Type: [System.Int32](#)

The value.

### See Also

[Altitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## Altitude.Altitude Properties

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

### Properties

	Name	Description
	<a href="#">Value</a>	Gets or sets the value. (Inherited from <a href="#">DataTypeBase(T)</a> .)

### See Also

[Altitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## Altitude.Altitude Methods

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

### Methods

	Name	Description
 	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
 	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
 	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
 	<a href="#">IsValid</a>	Returns true if ... is valid. (Overrides <a href="#">DataTypeBase(T).IsValid()</a> .)
 	<a href="#">ToString</a>	Returns a <a href="#">String</a> that represents this instance. (Inherited from <a href="#">DataTypeBase(T)</a> .)

### See Also

[Altitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## Altitude.IsValid Method

Returns true if ... is valid.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public override Nullable<bool> IsValid()
```

### *Return Value*

Type: [Nullable\(Boolean\)](#)

true if this instance is valid; otherwise, false.

### See Also

[Altitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## Altitude.Altitude Type Conversions

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

### Operators

	Name	Description
 	<a href="#">Implicit(Int32 to Altitude)</a>	Performs an implicit conversion from <a href="#">Int32</a> to <a href="#">Altitude</a> .

### See Also

[Altitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## Altitude Implicit Conversion (Int32 to Altitude)

Performs an implicit conversion from [Int32](#) to [Altitude](#).

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#)

**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](#)

The value.

### Return Value

Type: [Altitude](#)

The result of the conversion.

### See Also

[Altitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## GeoNode Class

### Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Datatypes.Geo.GeoNode

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#)

**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
	<a href="#">GeoNode</a>	Initializes a new instance of the <b>GeoNode</b> class

### Properties

	Name	Description
	<a href="#">Latitude</a>	Gets or sets the latitude.
	<a href="#">Longitude</a>	Gets or sets the longitude.
	<a href="#">Name</a>	Gets or sets the name.
	<a href="#">NodeId</a>	Gets or sets the node identifier.
	<a href="#">Position</a>	Gets the position.
	<a href="#">Tag</a>	Gets or sets the tag.
	<a href="#">Value</a>	Gets or sets the value.

### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

### See Also

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)



## GeoNode Constructor

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

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public GeoNode()
```

### See Also

[GeoNode Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## GeoNode.GeoNode Properties

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

### Properties

	Name	Description
	<a href="#">Latitude</a>	Gets or sets the latitude.
	<a href="#">Longitude</a>	Gets or sets the longitude.
	<a href="#">Name</a>	Gets or sets the name.
	<a href="#">NodeId</a>	Gets or sets the node identifier.
	<a href="#">Position</a>	Gets the position.
	<a href="#">Tag</a>	Gets or sets the tag.
	<a href="#">Value</a>	Gets or sets the value.

### See Also

[GeoNode Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## GeoNode.Latitude Property

Gets or sets the latitude.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public Latitude Latitude { get; }
```

### Property Value

Type: [Latitude](#)

The latitude.

### See Also

[GeoNode Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## GeoNode.Longitude Property

Gets or sets the longitude.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public Longitude Longitude { get; }
```

### Property Value

Type: [Longitude](#)

The longitude.

### See Also

[GeoNode Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## GeoNode.Name Property

Gets or sets the name.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public string Name { get; }
```

### Property Value

Type: [String](#)

The name.

### See Also

[GeoNode Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## GeoNode.NodeId Property

Gets or sets the node identifier.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public long NodeId { get; }
```

### Property Value

Type: [Int64](#)

The node identifier.

### See Also

[GeoNode Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## GeoNode.Position Property

Gets the position.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#)

**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](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## GeoNode.Tag Property

Gets or sets the tag.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public GeoTag Tag { get; }
```

### Property Value

Type: [GeoTag](#)

The tag.

### See Also

[GeoNode Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## GeoNode.Value Property

Gets or sets the value.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public string Value { get; }
```

*Property Value*

Type: [String](#)

The value.

### See Also

[GeoNode Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## GeoNode.GeoNode Methods

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

### Methods

	Name	Description
 	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
 	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
 	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
 	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

### See Also

[GeoNode Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## GeoNodeCollection Class

### Inheritance Hierarchy

[System.Object](#)

[System.Collections.ObjectModel.Collection\(GeoNode\)](#)

[System.Collections.ObjectModel.ObservableCollection\(GeoNode\)](#)

SIGENCEScenarioTool.Datatypes.Geo.GeoNodeCollection

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#)

**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
	<a href="#">Count</a>	Gets the number of elements actually contained in the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(GeoNode)</a> .)
	<a href="#">Item</a>	Gets or sets the element at the specified index. (Inherited from <a href="#">Collection(GeoNode)</a> .)

### Methods

	Name	Description
	<a href="#">Add</a>	Adds an object to the end of the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(GeoNode)</a> .)
	<a href="#">Clear</a>	Removes all elements from the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(GeoNode)</a> .)
	<a href="#">Contains</a>	Determines whether an element is in the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(GeoNode)</a> .)
	<a href="#">CopyTo</a>	Copies the entire <a href="#">Collection(T)</a> to a compatible one-dimensional <a href="#">Array</a> , starting at the specified index of the target array. (Inherited from <a href="#">Collection(GeoNode)</a> .)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetCollection</a>	Gets the collection.
	<a href="#">GetEnumerator</a>	Returns an enumerator that iterates through the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(GeoNode)</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)

	<a href="#">IndexOf</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the entire <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(GeoNode)</a> .)
	<a href="#">Insert</a>	Inserts an element into the <a href="#">Collection(T)</a> at the specified index. (Inherited from <a href="#">Collection(GeoNode)</a> .)
	<a href="#">Move</a>	Moves the item at the specified index to a new location in the collection. (Inherited from <a href="#">ObservableCollection(GeoNode)</a> .)
	<a href="#">Remove</a>	Removes the first occurrence of a specific object from the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(GeoNode)</a> .)
	<a href="#">RemoveAt</a>	Removes the element at the specified index of the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(GeoNode)</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

## Events

Name	Description
	<a href="#">CollectionChanged</a> Occurs when an item is added, removed, changed, moved, or the entire list is refreshed. (Inherited from <a href="#">ObservableCollection(GeoNode)</a> .)

## See Also

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

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

## GeoNodeCollection.GeoNodeCollection Properties

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

### Properties

	Name	Description
	<a href="#">Count</a>	Gets the number of elements actually contained in the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(GeoNode)</a> .)
	<a href="#">Item</a>	Gets or sets the element at the specified index. (Inherited from <a href="#">Collection(GeoNode)</a> .)

### See Also

[GeoNodeCollection Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## GeoNodeCollection.GeoNodeCollection Methods

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

### Methods

	Name	Description
≡	<a href="#">Add</a>	Adds an object to the end of the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(GeoNode)</a> .)
≡	<a href="#">Clear</a>	Removes all elements from the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(GeoNode)</a> .)
≡	<a href="#">Contains</a>	Determines whether an element is in the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(GeoNode)</a> .)
≡	<a href="#">CopyTo</a>	Copies the entire <a href="#">Collection(T)</a> to a compatible one-dimensional <a href="#">Array</a> , starting at the specified index of the target array. (Inherited from <a href="#">Collection(GeoNode)</a> .)
≡	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
≡	<a href="#">GetCollection</a>	Gets the collection.
S	<a href="#">GetEnumerator</a>	Returns an enumerator that iterates through the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(GeoNode)</a> .)
≡	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
≡	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
≡	<a href="#">IndexOf</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the entire <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(GeoNode)</a> .)
≡	<a href="#">Insert</a>	Inserts an element into the <a href="#">Collection(T)</a> at the specified index. (Inherited from <a href="#">Collection(GeoNode)</a> .)
≡	<a href="#">Move</a>	Moves the item at the specified index to a new location in the collection. (Inherited from <a href="#">ObservableCollection(GeoNode)</a> .)
≡	<a href="#">Remove</a>	Removes the first occurrence of a specific object from the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(GeoNode)</a> .)
≡	<a href="#">RemoveAt</a>	Removes the element at the specified index of the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(GeoNode)</a> .)
≡	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

### See Also

[GeoNodeCollection Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## GeoNodeCollection.GetCollection Method

Gets the collection.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#)

**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](#)

The string database filename.

*geotag* (Optional)

Type: [System.Nullable\(GeoTag\)](#)

The geotag.

#### Return Value

Type: [GeoNodeCollection](#)

### Exceptions

Exception	Condition
<a href="#">ArgumentException</a>	The parameter should not be empty! - strDatabaseFilename
<a href="#">FileNotFoundException</a>	The database can't not be found!

### See Also

[GeoNodeCollection Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## GeoNodeCollection.GeoNodeCollection Events

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

### Events

	Name	Description
	<a href="#">CollectionChanged</a>	Occurs when an item is added, removed, changed, moved, or the entire list is refreshed. (Inherited from <a href="#">ObservableCollection(GeoNode)</a> .)

### See Also

[GeoNodeCollection Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## Latitude Class

Inheritance Hierarchy

[System.Object](#)

[SIGENCEScenarioTool.Datatypes.DataTypeBase\(Double\)](#)

SIGENCEScenarioTool.Datatypes.Geo.Latitude

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#)

**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
	<a href="#">Latitude</a>	Initializes a new instance of the <b>Latitude</b> class.

### Properties

	Name	Description
	<a href="#">Value</a>	Gets or sets the value. (Inherited from <a href="#">DataTypeBase(T)</a> .)

### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">IsValid</a>	Returns true if ... is valid. (Overrides <a href="#">DataTypeBase(T).IsValid()</a> .)
	<a href="#">ToString</a>	Returns a <a href="#">String</a> that represents this instance. (Overrides <a href="#">DataTypeBase(T).ToString()</a> .)

### Operators

	Name	Description
	<a href="#">Implicit(Double to Latitude)</a>	Performs an implicit conversion from <a href="#">Double</a> to <a href="#">Latitude</a> .

### See Also

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

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

## Latitude Constructor

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

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public Latitude(  
    double value  
)
```

### Parameters

*value*

Type: [System.Double](#)

The value.

### See Also

[Latitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## Latitude.Latitude Properties

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

### Properties

	Name	Description
	<a href="#">Value</a>	Gets or sets the value. (Inherited from <a href="#">DataTypeBase(T)</a> .)

### See Also

[Latitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## Latitude.Latitude Methods

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

### Methods

	Name	Description
 	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
 	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
 	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
 	<a href="#">IsValid</a>	Returns true if ... is valid. (Overrides <a href="#">DataTypeBase(T).IsValid()</a> .)
 	<a href="#">ToString</a>	Returns a <a href="#">String</a> that represents this instance. (Overrides <a href="#">DataTypeBase(T).ToString()</a> .)

### See Also

[Latitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## Latitude.IsValid Method

Returns true if ... is valid.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public override Nullable<bool> IsValid()
```

### *Return Value*

Type: [Nullable\(Boolean\)](#)

true if this instance is valid; otherwise, false.

### See Also

[Latitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## Latitude.ToString Method

Returns a [String](#) that represents this instance.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public override string ToString()
```

### *Return Value*

Type: [String](#)

A [String](#) that represents this instance.

### See Also

[Latitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## Latitude.Latitude Type Conversions

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

### Operators

	<b>Name</b>	<b>Description</b>
 	<a href="#">Implicit(Double to Latitude)</a>	Performs an implicit conversion from <a href="#">Double</a> to <a href="#">Latitude</a> .

### See Also

[Latitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## Latitude Implicit Conversion (Double to Latitude)

Performs an implicit conversion from [Double](#) to [Latitude](#).

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#)

**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](#)

The value.

### Return Value

Type: [Latitude](#)

The result of the conversion.

### See Also

[Latitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## Longitude Class

Inheritance Hierarchy

[System.Object](#)

[SIGENCEScenarioTool.Datatypes.DataTypeBase\(Double\)](#)

SIGENCEScenarioTool.Datatypes.Geo.Longitude

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#)

**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
	<a href="#">Longitude</a>	Initializes a new instance of the <b>Longitude</b> class.

### Properties

	Name	Description
	<a href="#">Value</a>	Gets or sets the value. (Inherited from <a href="#">DataTypeBase(T)</a> .)

### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">IsValid</a>	Returns true if ... is valid. (Overrides <a href="#">DataTypeBase(T).IsValid()</a> .)
	<a href="#">ToString</a>	Returns a <a href="#">String</a> that represents this instance. (Overrides <a href="#">DataTypeBase(T).ToString()</a> .)

### Operators

	Name	Description
	<a href="#">Implicit(Double to Longitude)</a>	Performs an implicit conversion from <a href="#">Double</a> to <a href="#">Longitude</a> .

### See Also

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

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

## Longitude Constructor

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

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public Longitude(  
    double value  
)
```

### Parameters

*value*

Type: [System.Double](#)

The value.

### See Also

[Longitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## Longitude.Longitude Properties

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

### Properties

	Name	Description
	<a href="#">Value</a>	Gets or sets the value. (Inherited from <a href="#">DataTypeBase(T)</a> .)

### See Also

[Longitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## Longitude.Longitude Methods

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

### Methods

	Name	Description
 <a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)	
 <a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)	
 <a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)	
 <a href="#">IsValid</a>	Returns true if ... is valid. (Overrides <a href="#">DataTypeBase(T).IsValid()</a> .)	
 <a href="#">ToString</a>	Returns a <a href="#">String</a> that represents this instance. (Overrides <a href="#">DataTypeBase(T).ToString()</a> .)	

### See Also

[Longitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## Longitude.IsValid Method

Returns true if ... is valid.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public override Nullable<bool> IsValid()
```

### *Return Value*

Type: [Nullable\(Boolean\)](#)

true if this instance is valid; otherwise, false.

### See Also

[Longitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## Longitude.ToString Method

Returns a [String](#) that represents this instance.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public override string ToString()
```

### *Return Value*

Type: [String](#)

A [String](#) that represents this instance.

### See Also

[Longitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## Longitude.Longitude Type Conversions

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

### Operators

	Name	Description
 	<a href="#">Implicit(Double to Longitude)</a>	Performs an implicit conversion from <a href="#">Double</a> to <a href="#">Longitude</a> .

### See Also

[Longitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## Longitude Implicit Conversion (Double to Longitude)

Performs an implicit conversion from [Double](#) to [Longitude](#).

**Namespace:** [SIGENCEScenarioTool.Datatypes.Geo](#)

**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](#)

The value.

### Return Value

Type: [Longitude](#)

The result of the conversion.

### See Also

[Longitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

## SIGENCEScenarioTool.Datatypes.Observable Namespace

### Classes

	<b>Class</b>	<b>Description</b>
	<a href="#"><u>ObservableStringCollection</u></a>	

## ObservableStringCollection Class

### Inheritance Hierarchy

[System.Object](#)

[System.Collections.ObjectModel.Collection\(String\)](#)

[System.Collections.ObjectModel.ObservableCollection\(String\)](#)

SIGENCEScenarioTool.Datatypes.Observable.ObservableStringCollection

**Namespace:** [SIGENCEScenarioTool.Datatypes.Observable](#)

**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
	<a href="#">ObservableStringCollection</a>	Initializes a new instance of the <b>ObservableStringCollection</b> class

### Properties

	Name	Description
	<a href="#">Count</a>	Gets the number of elements actually contained in the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(String)</a> .)
	<a href="#">Item</a>	Gets or sets the element at the specified index. (Inherited from <a href="#">Collection(String)</a> .)

### Methods

	Name	Description
	<a href="#">Add</a>	Adds an object to the end of the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(String)</a> .)
	<a href="#">Clear</a>	Removes all elements from the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(String)</a> .)
	<a href="#">Contains</a>	Determines whether an element is in the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(String)</a> .)
	<a href="#">CopyTo</a>	Copies the entire <a href="#">Collection(T)</a> to a compatible one-dimensional <a href="#">Array</a> , starting at the specified index of the target array. (Inherited from <a href="#">Collection(String)</a> .)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetEnumerator</a>	Returns an enumerator that iterates through the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(String)</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)

 <a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
 <a href="#">IndexOf</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the entire <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(String)</a> .)
 <a href="#">Insert</a>	Inserts an element into the <a href="#">Collection(T)</a> at the specified index. (Inherited from <a href="#">Collection(String)</a> .)
 <a href="#">Move</a>	Moves the item at the specified index to a new location in the collection. (Inherited from <a href="#">ObservableCollection(String)</a> .)
 <a href="#">Remove</a>	Removes the first occurrence of a specific object from the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(String)</a> .)
 <a href="#">RemoveAt</a>	Removes the element at the specified index of the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(String)</a> .)
 <a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

## Events

Name	Description
 <a href="#">CollectionChanged</a>	Occurs when an item is added, removed, changed, moved, or the entire list is refreshed. (Inherited from <a href="#">ObservableCollection(String)</a> .)

## See Also

[SIGENCEScenarioTool.Datatypes.Observable Namespace](#)

[!:[System.Collections.ObjectModel.ObservableCollection<System.String>](#)]

## ObservableStringCollection Constructor

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

**Namespace:** [SIGENCEScenarioTool.Datatypes.Observable](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public ObservableStringCollection()
```

### See Also

[ObservableStringCollection Class](#)

[SIGENCEScenarioTool.Datatypes.Observable Namespace](#)

## ObservableStringCollection.ObservableStringCollection Properties

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

### Properties

	Name	Description
	<a href="#">Count</a>	Gets the number of elements actually contained in the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(String)</a> .)
	<a href="#">Item</a>	Gets or sets the element at the specified index. (Inherited from <a href="#">Collection(String)</a> .)

### See Also

[ObservableStringCollection Class](#)

[SIGENCEScenarioTool.Datatypes.Observable Namespace](#)

## ObservableStringCollection.ObservableStringCollection Methods

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

### Methods

	Name	Description
 <a href="#">Add</a>	Adds an object to the end of the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(String)</a> .)	
 <a href="#">Clear</a>	Removes all elements from the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(String)</a> .)	
 <a href="#">Contains</a>	Determines whether an element is in the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(String)</a> .)	
 <a href="#">CopyTo</a>	Copies the entire <a href="#">Collection(T)</a> to a compatible one-dimensional <a href="#">Array</a> , starting at the specified index of the target array. (Inherited from <a href="#">Collection(String)</a> .)	
 <a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)	
 <a href="#">GetEnumerator</a>	Returns an enumerator that iterates through the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(String)</a> .)	
 <a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)	
 <a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)	
 <a href="#">IndexOf</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the entire <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(String)</a> .)	
 <a href="#">Insert</a>	Inserts an element into the <a href="#">Collection(T)</a> at the specified index. (Inherited from <a href="#">Collection(String)</a> .)	
 <a href="#">Move</a>	Moves the item at the specified index to a new location in the collection. (Inherited from <a href="#">ObservableCollection(String)</a> .)	
 <a href="#">Remove</a>	Removes the first occurrence of a specific object from the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(String)</a> .)	
 <a href="#">RemoveAt</a>	Removes the element at the specified index of the <a href="#">Collection(T)</a> . (Inherited from <a href="#">Collection(String)</a> .)	
 <a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)	

### See Also

[ObservableStringCollection Class](#)

[SIGENCEScenarioTool.Datatypes.Observable Namespace](#)

## ObservableStringCollection.ObservableStringCollection Events

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

### Events

	Name	Description
	<a href="#">CollectionChanged</a>	Occurs when an item is added, removed, changed, moved, or the entire list is refreshed. (Inherited from <a href="#">ObservableCollection(String)</a> .)

### See Also

[ObservableStringCollection Class](#)

[SIGENCEScenarioTool.Datatypes.Observable Namespace](#)

## SIGENCEScenarioTool.Datatypes.Physically Namespace

### Classes

	<b>Class</b>	<b>Description</b>
	<a href="#"><u>Bandwidth</u></a>	
	<a href="#"><u>Frequency</u></a>	
	<a href="#"><u>Gain</u></a>	
	<a href="#"><u>SignalToNoiseRatio</u></a>	

## Bandwidth Class

### Inheritance Hierarchy

[System.Object](#)

[SIGENCEScenarioTool.Datatypes.DataTypeBase\(Double\)](#)

SIGENCEScenarioTool.Datatypes.Physically.Bandwidth

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#)

**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
	<a href="#">Bandwidth</a>	Initializes a new instance of the <b>Bandwidth</b> class.

### Properties

	Name	Description
	<a href="#">Value</a>	Gets or sets the value. (Inherited from <a href="#">DataTypeBase(T)</a> .)

### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">IsValid</a>	Returns true if ... is valid. (Overrides <a href="#">DataTypeBase(T).IsValid()</a> .)
	<a href="#">ToString</a>	Returns a <a href="#">String</a> that represents this instance. (Overrides <a href="#">DataTypeBase(T).ToString()</a> .)

### Operators

	Name	Description
	<a href="#">Implicit(Double to Bandwidth)</a>	Performs an implicit conversion from <a href="#">Double</a> to <b>Bandwidth</b> .

### See Also

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

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

## Bandwidth Constructor

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

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public Bandwidth(  
    double value  
)
```

### Parameters

*value*

Type: [System.Double](#)

The value.

### See Also

[Bandwidth Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## Bandwidth.Bandwidth Properties

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

### Properties

	Name	Description
	<a href="#">Value</a>	Gets or sets the value. (Inherited from <a href="#">DataTypeBase(T)</a> .)

### See Also

[Bandwidth Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## Bandwidth.Bandwidth Methods

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

### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">IsValid</a>	Returns true if ... is valid. (Overrides <a href="#">DataTypeBase(T).IsValid()</a> .)
	<a href="#">ToString</a>	Returns a <a href="#">String</a> that represents this instance. (Overrides <a href="#">DataTypeBase(T).ToString()</a> .)

### See Also

[Bandwidth Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## Bandwidth.IsValid Method

Returns true if ... is valid.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public override Nullable<bool> IsValid()
```

### *Return Value*

Type: [Nullable\(Boolean\)](#)

true if this instance is valid; otherwise, false.

### See Also

[Bandwidth Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## Bandwidth.ToString Method

Returns a [String](#) that represents this instance.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public override string ToString()
```

### *Return Value*

Type: [String](#)

A [String](#) that represents this instance.

### See Also

[Bandwidth Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## Bandwidth.Bandwidth Type Conversions

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

### Operators

	<b>Name</b>	<b>Description</b>
 	<a href="#">Implicit(Double to Bandwidth)</a>	Performs an implicit conversion from <a href="#">Double</a> to <a href="#">Bandwidth</a> .

### See Also

[Bandwidth Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## Bandwidth Implicit Conversion (Double to Bandwidth)

Performs an implicit conversion from [Double](#) to [Bandwidth](#).

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#)

**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](#)

The value.

### Return Value

Type: [Bandwidth](#)

The result of the conversion.

### See Also

[Bandwidth Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## Frequency Class

### Inheritance Hierarchy

[System.Object](#)

[SIGENCEScenarioTool.Datatypes.DataTypeBase\(Double\)](#)

SIGENCEScenarioTool.Datatypes.Physically.Frequency

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#)

**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
	<a href="#">Frequency</a>	Initializes a new instance of the <b>Frequency</b> class.

### Properties

	Name	Description
	<a href="#">Value</a>	Gets or sets the value. (Inherited from <a href="#">DataTypeBase(T)</a> .)

### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">IsValid</a>	Returns true if ... is valid. (Overrides <a href="#">DataTypeBase(T).IsValid()</a> .)
	<a href="#">ToString</a>	Returns a <a href="#">String</a> that represents this instance. (Overrides <a href="#">DataTypeBase(T).ToString()</a> .)

### Operators

	Name	Description
	<a href="#">Implicit(Double to Frequency)</a>	Performs an implicit conversion from <a href="#">Double</a> to <b>Frequency</b> .

### See Also

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

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

## Frequency Constructor

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

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public Frequency(  
    double value  
)
```

### Parameters

*value*

Type: [System.Double](#)

The value.

### See Also

[Frequency Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## Frequency.Frequency Properties

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

### Properties

	Name	Description
	<a href="#">Value</a>	Gets or sets the value. (Inherited from <a href="#">DataTypeBase(T)</a> .)

### See Also

[Frequency Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## Frequency.Frequency Methods

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

### Methods

	Name	Description
 <a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)	
 <a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)	
 <a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)	
 <a href="#">IsValid</a>	Returns true if ... is valid. (Overrides <a href="#">DataTypeBase(T).IsValid()</a> .)	
 <a href="#">ToString</a>	Returns a <a href="#">String</a> that represents this instance. (Overrides <a href="#">DataTypeBase(T).ToString()</a> .)	

### See Also

[Frequency Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## Frequency.IsValid Method

Returns true if ... is valid.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public override Nullable<bool> IsValid()
```

### *Return Value*

Type: [Nullable\(Boolean\)](#)

true if this instance is valid; otherwise, false.

### See Also

[Frequency Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## Frequency.ToString Method

Returns a [String](#) that represents this instance.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public override string ToString()
```

### *Return Value*

Type: [String](#)

A [String](#) that represents this instance.

### See Also

[Frequency Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## Frequency.Frequency Type Conversions

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

### Operators

	<b>Name</b>	<b>Description</b>
 <b>S</b>	<a href="#">Implicit(Double to Frequency)</a>	Performs an implicit conversion from <a href="#">Double</a> to <a href="#">Frequency</a> .

### See Also

[Frequency Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## Frequency Implicit Conversion (Double to Frequency)

Performs an implicit conversion from [Double](#) to [Frequency](#).

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#)

**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](#)

The value.

### Return Value

Type: [Frequency](#)

The result of the conversion.

### See Also

[Frequency Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## Gain Class

Inheritance Hierarchy

[System.Object](#)

[SIGENCEScenarioTool.Datatypes.DataTypeBase\(Double\)](#)

SIGENCEScenarioTool.Datatypes.Physically.Gain

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#)

**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
	<a href="#">Gain</a>	Initializes a new instance of the <b>Gain</b> class.

### Properties

	Name	Description
	<a href="#">Value</a>	Gets or sets the value. (Inherited from <a href="#">DataTypeBase(T)</a> .)

### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">IsValid</a>	Returns true if ... is valid. (Overrides <a href="#">DataTypeBase(T).IsValid()</a> .)
	<a href="#">ToString</a>	Returns a <a href="#">String</a> that represents this instance. (Overrides <a href="#">DataTypeBase(T).ToString()</a> .)

### Operators

	Name	Description
	<a href="#">Implicit(Double to Gain)</a>	Performs an implicit conversion from <a href="#">Double</a> to <b>Gain</b> .

### See Also

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

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

## Gain Constructor

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

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public Gain(  
    double value  
)
```

### Parameters

*value*

Type: [System.Double](#)

The value.

### See Also

[Gain Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## Gain.Gain Properties

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

### Properties

	Name	Description
	<a href="#">Value</a>	Gets or sets the value. (Inherited from <a href="#">DataTypeBase(T)</a> .)

### See Also

[Gain Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## Gain.Gain Methods

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

### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">IsValid</a>	Returns true if ... is valid. (Overrides <a href="#">DataTypeBase(T).IsValid()</a> .)
	<a href="#">ToString</a>	Returns a <a href="#">String</a> that represents this instance. (Overrides <a href="#">DataTypeBase(T).ToString()</a> .)

### See Also

[Gain Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## Gain.IsValid Method

Returns true if ... is valid.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public override Nullable<bool> IsValid()
```

### *Return Value*

Type: [Nullable\(Boolean\)](#)

true if this instance is valid; otherwise, false.

### See Also

[Gain Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## Gain.ToString Method

Returns a [String](#) that represents this instance.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public override string ToString()
```

### *Return Value*

Type: [String](#)

A [String](#) that represents this instance.

### See Also

[Gain Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## Gain.Gain Type Conversions

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

### Operators

	Name	Description
 <b>S</b>	<a href="#">Implicit(Double to Gain)</a>	Performs an implicit conversion from <a href="#">Double</a> to <a href="#">Gain</a> .

### See Also

[Gain Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## Gain Implicit Conversion (Double to Gain)

Performs an implicit conversion from [Double](#) to [Gain](#).

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#)

**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](#)

The value.

### Return Value

Type: [Gain](#)

The result of the conversion.

### See Also

[Gain Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## SignalToNoiseRatio Class

### Inheritance Hierarchy

[System.Object](#)

[SIGENCEScenarioTool.Datatypes.DataTypeBase\(Double\)](#)

SIGENCEScenarioTool.Datatypes.Physically.SignalToNoiseRatio

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#)

**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
	<a href="#">SignalToNoiseRatio</a>	Initializes a new instance of the <b>SignalToNoiseRatio</b> class.

### Properties

	Name	Description
	<a href="#">Value</a>	Gets or sets the value. (Inherited from <a href="#">DataTypeBase(T)</a> .)

### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">IsValid</a>	Returns true if ... is valid. (Overrides <a href="#">DataTypeBase(T).IsValid()</a> .)
	<a href="#">ToString</a>	Returns a <a href="#">String</a> that represents this instance. (Overrides <a href="#">DataTypeBase(T).ToString()</a> .)

### Operators

	Name	Description
	<a href="#">Implicit(Double to SignalToNoiseRatio)</a>	Performs an implicit conversion from <a href="#">Double</a> to <a href="#">SignalToNoiseRatio</a> .

**See Also**

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

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

## SignalToNoiseRatio Constructor

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

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public SignalToNoiseRatio(  
    double value  
)
```

### Parameters

*value*

Type: [System.Double](#)

The value.

### See Also

[SignalToNoiseRatio Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## SignalToNoiseRatio.SignalToNoiseRatio Properties

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

### Properties

	Name	Description
	<a href="#">Value</a>	Gets or sets the value. (Inherited from <a href="#">DataTypeBase(T)</a> .)

### See Also

[SignalToNoiseRatio Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## SignalToNoiseRatio.SignalToNoiseRatio Methods

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

### Methods

	Name	Description
 	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
 	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
 	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
 	<a href="#">IsValid</a>	Returns true if ... is valid. (Overrides <a href="#">DataTypeBase(T).IsValid()</a> .)
 	<a href="#">ToString</a>	Returns a <a href="#">String</a> that represents this instance. (Overrides <a href="#">DataTypeBase(T).ToString()</a> .)

### See Also

[SignalToNoiseRatio Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## SignalToNoiseRatio.IsValid Method

Returns true if ... is valid.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public override Nullable<bool> IsValid()
```

### *Return Value*

Type: [Nullable\(Boolean\)](#)

true if this instance is valid; otherwise, false.

### See Also

[SignalToNoiseRatio Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## SignalToNoiseRatio.ToString Method

Returns a [String](#) that represents this instance.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public override string ToString()
```

### *Return Value*

Type: [String](#)

A [String](#) that represents this instance.

### See Also

[SignalToNoiseRatio Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## SignalToNoiseRatio.SignalToNoiseRatio Type Conversions

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

### Operators

	Name	Description
 	<a href="#">Implicit(Double to SignalToNoiseRatio)</a>	Performs an implicit conversion from <a href="#">Double</a> to <a href="#">SignalToNoiseRatio</a> .

### See Also

[SignalToNoiseRatio Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## SignalToNoiseRatio Implicit Conversion (Double to SignalToNoiseRatio)

Performs an implicit conversion from [Double](#) to [SignalToNoiseRatio](#).

**Namespace:** [SIGENCEScenarioTool.Datatypes.Physically](#)

**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](#)

The value.

### Return Value

Type: [SignalToNoiseRatio](#)

The result of the conversion.

### See Also

[SignalToNoiseRatio Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

## SIGENCEScenarioTool.Datatypes.Standard Namespace

### Classes

	<b>Class</b>	<b>Description</b>
	<a href="#"><u>IntegerList</u></a>	
	<a href="#"><u>StringList</u></a>	

## IntegerList Class

Inheritance Hierarchy

[System.Object](#)

[System.Collections.Generic.List\(Int32\)](#)

SIGENCEScenarioTool.Datatypes.Standard.IntegerList

**Namespace:** [SIGENCEScenarioTool.Datatypes.Standard](#)

**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
	<a href="#">IntegerList()</a>	Initializes a new instance of the <b>IntegerList</b> class.
	<a href="#">IntegerList(IEnumerable(Int32))</a>	Initializes a new instance of the <b>IntegerList</b> class.
	<a href="#">IntegerList(Int32)</a>	Initializes a new instance of the <b>IntegerList</b> class.

### Properties

	Name	Description
	<a href="#">Capacity</a>	Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from <a href="#">List(Int32)</a> .)
	<a href="#">Count</a>	Gets the number of elements contained in the <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
	<a href="#">Item</a>	Gets or sets the element at the specified index. (Inherited from <a href="#">List(Int32)</a> .)

### Methods

	Name	Description
	<a href="#">Add</a>	Adds an object to the end of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
	<a href="#">AddRange</a>	Adds the elements of the specified collection to the end of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
	<a href="#">AsReadOnly</a>	Returns a read-only <a href="#">IList(T)</a> wrapper for the current collection. (Inherited from <a href="#">List(Int32)</a> .)
	<a href="#">BinarySearch(T)</a>	Searches the entire sorted <a href="#">List(T)</a> for an element using the default comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(Int32)</a> .)

 <a href="#">BinarySearch(T, IComparer(T))</a>	Searches the entire sorted <a href="#">List(T)</a> for an element using the specified comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">BinarySearch(Int32, Int32, T, IComparer(T))</a>	Searches a range of elements in the sorted <a href="#">List(T)</a> for an element using the specified comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">Clear</a>	Removes all elements from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">Contains</a>	Determines whether an element is in the <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">ConvertAll(TOutput)</a>	Converts the elements in the current <a href="#">List(T)</a> to another type, and returns a list containing the converted elements. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">CopyTo(T[])</a>	Copies the entire <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the beginning of the target array. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">CopyTo(T[], Int32)</a>	Copies the entire <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">CopyTo(Int32,T[], Int32, Int32)</a>	Copies a range of elements from the <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
 <a href="#">Exists</a>	Determines whether the <a href="#">List(T)</a> contains elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">Find</a>	Searches for an element that matches the conditions defined by the specified predicate, and returns the first occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">FindAll</a>	Retrieves all the elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">FindIndex(Predicate(T))</a>	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 <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">FindIndex(Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that extends from the specified index to the last element. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">FindIndex(Int32, Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that starts at

		the specified index and contains the specified number of elements. (Inherited from <a href="#">List(Int32)</a> .)
≡	<a href="#">FindLast</a>	Searches for an element that matches the conditions defined by the specified predicate, and returns the last occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
≡	<a href="#">FindLastIndex(Predicate(T))</a>	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 <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
≡	<a href="#">FindLastIndex(Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that extends from the first element to the specified index. (Inherited from <a href="#">List(Int32)</a> .)
≡	<a href="#">FindLastIndex(Int32, Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that contains the specified number of elements and ends at the specified index. (Inherited from <a href="#">List(Int32)</a> .)
≡	<a href="#">ForEach</a>	Performs the specified action on each element of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
≡	<a href="#">GetEnumerator</a>	Returns an enumerator that iterates through the <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
≡	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
≡	<a href="#">GetRange</a>	Creates a shallow copy of a range of elements in the source <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
≡	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
≡	<a href="#">IndexOf(T)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
≡	<a href="#">IndexOf(T, Int32)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the <a href="#">List(T)</a> that extends from the specified index to the last element. (Inherited from <a href="#">List(Int32)</a> .)
≡	<a href="#">IndexOf(T, Int32, Int32)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the <a href="#">List(T)</a> that starts at the specified index and contains the specified number of elements. (Inherited from <a href="#">List(Int32)</a> .)
≡	<a href="#">Insert</a>	Inserts an element into the <a href="#">List(T)</a> at the specified index. (Inherited from <a href="#">List(Int32)</a> .)
≡	<a href="#">InsertRange</a>	Inserts the elements of a collection into the <a href="#">List(T)</a> at the specified index. (Inherited from <a href="#">List(Int32)</a> .)

 <a href="#">LastIndexOf(T)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">LastIndexOf(T, Int32)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the <a href="#">List(T)</a> that extends from the first element to the specified index. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">LastIndexOf(T, Int32, Int32)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the <a href="#">List(T)</a> that contains the specified number of elements and ends at the specified index. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">Remove</a>	Removes the first occurrence of a specific object from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">RemoveAll</a>	Removes all the elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">RemoveAt</a>	Removes the element at the specified index of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">RemoveRange</a>	Removes a range of elements from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">Reverse()</a>	Reverses the order of the elements in the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">Reverse(Int32, Int32)</a>	Reverses the order of the elements in the specified range. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">Sort()</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the default comparer. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">Sort(IComparer(T))</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the specified comparer. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">Sort(Comparison(T))</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the specified <a href="#">Comparison(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">Sort(Int32, Int32, IComparer(T))</a>	Sorts the elements in a range of elements in <a href="#">List(T)</a> using the specified comparer. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">ToArray</a>	Copies the elements of the <a href="#">List(T)</a> to a new array. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
 <a href="#">TrimExcess</a>	Sets the capacity to the actual number of elements in the <a href="#">List(T)</a> , if that number is less than a threshold value. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">TrueForAll</a>	Determines whether every element in the <a href="#">List(T)</a> matches the conditions defined by the specified predicate. (Inherited from <a href="#">List(Int32)</a> .)

## Operators

	Name	Description
	<a href="#">Multiply</a>	Implements the operator *.

## Extension Methods

	Name	Description
	<a href="#">SaveAsCsv(Int32)</a>	Saves the list as CSV. (Defined by <a href="#">ListExtension</a> .)

## See Also

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

[\[!System.Collections.Generic.List<System.Int32>\]](#)

## IntegerList Constructor

### Overload List

	Name	Description
	<a href="#">IntegerList()</a>	Initializes a new instance of the <a href="#">IntegerList</a> class.
	<a href="#">IntegerList(IEnumerable&lt;Int32&gt;)</a>	Initializes a new instance of the <a href="#">IntegerList</a> class.
	<a href="#">IntegerList(Int32)</a>	Initializes a new instance of the <a href="#">IntegerList</a> class.

### See Also

[IntegerList Class](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

## [IntegerList Constructor](#)

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

**Namespace:** [SIGENCEScenarioTool.Datatypes.Standard](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public IntegerList()
```

### See Also

[IntegerList Class](#)

[IntegerList Overload](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

## IntegerList Constructor (IEnumerable<Int32>)

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

**Namespace:** [SIGENCEScenarioTool.Datatypes.Standard](#)

**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<Int32>](#)

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

### See Also

[IntegerList Class](#)

[IntegerList Overload](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

## IntegerList Constructor (Int32)

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

**Namespace:** [SIGENCEScenarioTool.Datatypes.Standard](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public IntegerList(  
    int iSize  
)
```

### Parameters

*iSize*

Type: [System.Int32](#)

Size of the i.

### See Also

[IntegerList Class](#)

[IntegerList Overload](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

## IntegerList.IntegerList Properties

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

### Properties

	Name	Description
	<a href="#">Capacity</a>	Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from <a href="#">List(Int32)</a> .)
	<a href="#">Count</a>	Gets the number of elements contained in the <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
	<a href="#">Item</a>	Gets or sets the element at the specified index. (Inherited from <a href="#">List(Int32)</a> .)

### See Also

[IntegerList Class](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

## IntegerList.IntegerList Methods

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

### Methods

Name	Description
 <a href="#">Add</a>	Adds an object to the end of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">AddRange</a>	Adds the elements of the specified collection to the end of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">AsReadOnly</a>	Returns a read-only <a href="#">IList(T)</a> wrapper for the current collection. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">BinarySearch(T)</a>	Searches the entire sorted <a href="#">List(T)</a> for an element using the default comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">BinarySearch(T, IComparer(T))</a>	Searches the entire sorted <a href="#">List(T)</a> for an element using the specified comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">BinarySearch(Int32, Int32, T, IComparer(T))</a>	Searches a range of elements in the sorted <a href="#">List(T)</a> for an element using the specified comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">Clear</a>	Removes all elements from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">Contains</a>	Determines whether an element is in the <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">ConvertAll(TOutput)</a>	Converts the elements in the current <a href="#">List(T)</a> to another type, and returns a list containing the converted elements. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">CopyTo(T[])</a>	Copies the entire <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the beginning of the target array. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">CopyTo(T[], Int32)</a>	Copies the entire <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">CopyTo(Int32, T[], Int32, Int32)</a>	Copies a range of elements from the <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
 <a href="#">Exists</a>	Determines whether the <a href="#">List(T)</a> contains elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(Int32)</a> .)

 <a href="#">Find</a>	Searches for an element that matches the conditions defined by the specified predicate, and returns the first occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">FindAll</a>	Retrieves all the elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">FindIndex(Predicate(T))</a>	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 <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">FindIndex(Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that extends from the specified index to the last element. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">FindIndex(Int32, Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that starts at the specified index and contains the specified number of elements. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">FindLast</a>	Searches for an element that matches the conditions defined by the specified predicate, and returns the last occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">FindLastIndex(Predicate(T))</a>	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 <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">FindLastIndex(Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that extends from the first element to the specified index. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">FindLastIndex(Int32, Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that contains the specified number of elements and ends at the specified index. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">ForEach</a>	Performs the specified action on each element of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">GetEnumerator</a>	Returns an enumerator that iterates through the <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
 <a href="#">GetRange</a>	Creates a shallow copy of a range of elements in the source <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)

 <a href="#">IndexOf(T)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">IndexOf(T, Int32)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the <a href="#">List(T)</a> that extends from the specified index to the last element. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">IndexOf(T, Int32, Int32)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the <a href="#">List(T)</a> that starts at the specified index and contains the specified number of elements. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">Insert</a>	Inserts an element into the <a href="#">List(T)</a> at the specified index. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">InsertRange</a>	Inserts the elements of a collection into the <a href="#">List(T)</a> at the specified index. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">LastIndexOf(T)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">LastIndexOf(T, Int32)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the <a href="#">List(T)</a> that extends from the first element to the specified index. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">LastIndexOf(T, Int32, Int32)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the <a href="#">List(T)</a> that contains the specified number of elements and ends at the specified index. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">Remove</a>	Removes the first occurrence of a specific object from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">RemoveAll</a>	Removes all the elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">RemoveAt</a>	Removes the element at the specified index of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">RemoveRange</a>	Removes a range of elements from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">Reverse()</a>	Reverses the order of the elements in the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">Reverse(Int32, Int32)</a>	Reverses the order of the elements in the specified range. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">Sort()</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the default comparer. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">Sort(IComparer(T))</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the specified comparer. (Inherited from <a href="#">List(Int32)</a> .)

 <a href="#">Sort(Comparison(T))</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the specified <a href="#">Comparison(T)</a> . (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">Sort(Int32, Int32, IComparer(T))</a>	Sorts the elements in a range of elements in <a href="#">List(T)</a> using the specified comparer. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">ToArray</a>	Copies the elements of the <a href="#">List(T)</a> to a new array. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
 <a href="#">TrimExcess</a>	Sets the capacity to the actual number of elements in the <a href="#">List(T)</a> , if that number is less than a threshold value. (Inherited from <a href="#">List(Int32)</a> .)
 <a href="#">TrueForAll</a>	Determines whether every element in the <a href="#">List(T)</a> matches the conditions defined by the specified predicate. (Inherited from <a href="#">List(Int32)</a> .)

## Extension Methods

	Name	Description
 <a href="#">SaveAsCsv(Int32)</a>	Saves the list as CSV. (Defined by <a href="#">ListExtension</a> .)	

## See Also

[IntegerList Class](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

## [IntegerList](#).[IntegerList](#) Operators

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

### Operators

	Name	Description
 <b>Multiply</b>	<a href="#">Multiply</a>	Implements the operator *.

### See Also

[IntegerList Class](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

## IntegerList.Multiply Operator

Implements the operator \*.

**Namespace:** [SIGENCEScenarioTool.Datatypes.Standard](#)

**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](#)

The il source.

#### iMultiplier

Type: [System.Int32](#)

The i multiplier.

### Return Value

Type: [IntegerList](#)

The result of the operator.

### See Also

[IntegerList Class](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

## StringList Class

Inheritance Hierarchy

[System.Object](#)

[System.Collections.Generic.List\(String\)](#)

SIGENCEScenarioTool.Datatypes.Standard.StringList

**Namespace:** [SIGENCEScenarioTool.Datatypes.Standard](#)

**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
≡	<a href="#">StringList()</a>	Initializes a new instance of the <b>StringList</b> class.
≡	<a href="#">StringList(IEnumerable(String))</a>	Initializes a new instance of the <b>StringList</b> class.
≡	<a href="#">StringList(Int32)</a>	Initializes a new instance of the <b>StringList</b> class.
≡	<a href="#">StringList(String[])</a>	Initializes a new instance of the <b>StringList</b> class.

### Properties

	Name	Description
≡	<a href="#">Capacity</a>	Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from <a href="#">List(String)</a> .)
≡	<a href="#">Count</a>	Gets the number of elements contained in the <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
≡	<a href="#">Item</a>	Gets or sets the element at the specified index. (Inherited from <a href="#">List(String)</a> .)

### Methods

	Name	Description
≡	<a href="#">Add</a>	Adds an object to the end of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
≡	<a href="#">AddRange</a>	Adds the elements of the specified collection to the end of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
≡	<a href="#">AsReadOnly</a>	Returns a read-only <a href="#">IList(T)</a> wrapper for the current collection. (Inherited from <a href="#">List(String)</a> .)
≡	<a href="#">BinarySearch(T)</a>	Searches the entire sorted <a href="#">List(T)</a> for an element using the default comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(String)</a> .)

 <a href="#">BinarySearch(T, IComparer(T))</a>	Searches the entire sorted <a href="#">List(T)</a> for an element using the specified comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">BinarySearch(Int32, Int32, T, IComparer(T))</a>	Searches a range of elements in the sorted <a href="#">List(T)</a> for an element using the specified comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">Clear</a>	Removes all elements from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">Contains</a>	Determines whether an element is in the <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">ConvertAll(TOutput)</a>	Converts the elements in the current <a href="#">List(T)</a> to another type, and returns a list containing the converted elements. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">CopyTo(T[])</a>	Copies the entire <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the beginning of the target array. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">CopyTo(T[], Int32)</a>	Copies the entire <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">CopyTo(Int32,T[], Int32, Int32)</a>	Copies a range of elements from the <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
 <a href="#">Exists</a>	Determines whether the <a href="#">List(T)</a> contains elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">Find</a>	Searches for an element that matches the conditions defined by the specified predicate, and returns the first occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">FindAll</a>	Retrieves all the elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">FindIndex(Predicate(T))</a>	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 <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">FindIndex(Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that extends from the specified index to the last element. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">FindIndex(Int32, Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that starts at

		the specified index and contains the specified number of elements. (Inherited from <a href="#">List(String)</a> .)
≡♥	<a href="#">FindLast</a>	Searches for an element that matches the conditions defined by the specified predicate, and returns the last occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
≡♥	<a href="#">FindLastIndex(Predicate(T))</a>	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 <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
≡♥	<a href="#">FindLastIndex(Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that extends from the first element to the specified index. (Inherited from <a href="#">List(String)</a> .)
≡♥	<a href="#">FindLastIndex(Int32, Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that contains the specified number of elements and ends at the specified index. (Inherited from <a href="#">List(String)</a> .)
≡♥	<a href="#">ForEach</a>	Performs the specified action on each element of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
≡♥	<a href="#">GetEnumerator</a>	Returns an enumerator that iterates through the <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
≡♥	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
≡♥	<a href="#">GetRange</a>	Creates a shallow copy of a range of elements in the source <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
≡♥	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
≡♥	<a href="#">IndexOf(T)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
≡♥	<a href="#">IndexOf(T, Int32)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the <a href="#">List(T)</a> that extends from the specified index to the last element. (Inherited from <a href="#">List(String)</a> .)
≡♥	<a href="#">IndexOf(T, Int32, Int32)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the <a href="#">List(T)</a> that starts at the specified index and contains the specified number of elements. (Inherited from <a href="#">List(String)</a> .)
≡♥	<a href="#">Insert</a>	Inserts an element into the <a href="#">List(T)</a> at the specified index. (Inherited from <a href="#">List(String)</a> .)
≡♥	<a href="#">InsertRange</a>	Inserts the elements of a collection into the <a href="#">List(T)</a> at the specified index. (Inherited from <a href="#">List(String)</a> .)

 <a href="#">LastIndexOf(T)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">LastIndexOf(T, Int32)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the <a href="#">List(T)</a> that extends from the first element to the specified index. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">LastIndexOf(T, Int32, Int32)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the <a href="#">List(T)</a> that contains the specified number of elements and ends at the specified index. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">Remove</a>	Removes the first occurrence of a specific object from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">RemoveAll</a>	Removes all the elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">RemoveAt</a>	Removes the element at the specified index of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">RemoveRange</a>	Removes a range of elements from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">Reverse()</a>	Reverses the order of the elements in the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">Reverse(Int32, Int32)</a>	Reverses the order of the elements in the specified range. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">Sort()</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the default comparer. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">Sort(IComparer(T))</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the specified comparer. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">Sort(Comparison(T))</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the specified <a href="#">Comparison(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">Sort(Int32, Int32, IComparer(T))</a>	Sorts the elements in a range of elements in <a href="#">List(T)</a> using the specified comparer. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">ToArray</a>	Copies the elements of the <a href="#">List(T)</a> to a new array. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
 <a href="#">TrimExcess</a>	Sets the capacity to the actual number of elements in the <a href="#">List(T)</a> , if that number is less than a threshold value. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">TrueForAll</a>	Determines whether every element in the <a href="#">List(T)</a> matches the conditions defined by the specified predicate. (Inherited from <a href="#">List(String)</a> .)

## Operators

	Name	Description
 	<a href="#">Implicit(StringList toString[])</a>	Performs an implicit conversion from <b>StringList</b> to <b>[!:System.String[]]</b> .

## Extension Methods

	Name	Description
	<a href="#">SaveAsCsv(String)</a>	Saves the list as CSV. (Defined by <a href="#">ListExtension</a> .)

## See Also

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

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

## StringList Constructor

### Overload List

	Name	Description
≡	<a href="#">StringList()</a>	Initializes a new instance of the <a href="#">StringList</a> class.
≡	<a href="#">StringList(IEnumerable(String))</a>	Initializes a new instance of the <a href="#">StringList</a> class.
≡	<a href="#">StringList(Int32)</a>	Initializes a new instance of the <a href="#">StringList</a> class.
≡	<a href="#">StringList(String[])</a>	Initializes a new instance of the <a href="#">StringList</a> class.

### See Also

[StringList Class](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

## StringList Constructor

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

**Namespace:** [SIGENCEScenarioTool.Datatypes.Standard](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public StringList()
```

### See Also

[StringList Class](#)

[StringList Overload](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

## StringList Constructor (IEnumerable(String))

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

**Namespace:** [SIGENCEScenarioTool.Datatypes.Standard](#)

**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\(String\)](#)

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

### See Also

[StringList Class](#)

[StringList Overload](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

## StringList Constructor (Int32)

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

**Namespace:** [SIGENCEScenarioTool.Datatypes.Standard](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public StringList(  
    int iSize  
)
```

### Parameters

*iSize*

Type: [System.Int32](#)

Size of the i.

### See Also

[StringList Class](#)

[StringList Overload](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

## StringList Constructor (String[])

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

**Namespace:** [SIGENCEScenarioTool.Datatypes.Standard](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public StringList(  
    string[] strArray  
)
```

### Parameters

*strArray*

Type: [System.String\[\]](#)

The string array.

### See Also

[StringList Class](#)

[StringList Overload](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

## StringList.StringList Properties

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

### Properties

	Name	Description
	<a href="#">Capacity</a>	Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from <a href="#">List(String)</a> .)
	<a href="#">Count</a>	Gets the number of elements contained in the <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
	<a href="#">Item</a>	Gets or sets the element at the specified index. (Inherited from <a href="#">List(String)</a> .)

### See Also

[StringList Class](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

## StringList.StringList Methods

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

### Methods

Name	Description
 <a href="#">Add</a>	Adds an object to the end of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">AddRange</a>	Adds the elements of the specified collection to the end of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">AsReadOnly</a>	Returns a read-only <a href="#">IList(T)</a> wrapper for the current collection. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">BinarySearch(T)</a>	Searches the entire sorted <a href="#">List(T)</a> for an element using the default comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">BinarySearch(T, IComparer(T))</a>	Searches the entire sorted <a href="#">List(T)</a> for an element using the specified comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">BinarySearch(Int32, Int32, T, IComparer(T))</a>	Searches a range of elements in the sorted <a href="#">List(T)</a> for an element using the specified comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">Clear</a>	Removes all elements from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">Contains</a>	Determines whether an element is in the <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">ConvertAll(TOutput)</a>	Converts the elements in the current <a href="#">List(T)</a> to another type, and returns a list containing the converted elements. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">CopyTo(T[])</a>	Copies the entire <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the beginning of the target array. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">CopyTo(T[], Int32)</a>	Copies the entire <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">CopyTo(Int32, T[], Int32, Int32)</a>	Copies a range of elements from the <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
 <a href="#">Exists</a>	Determines whether the <a href="#">List(T)</a> contains elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(String)</a> .)

 <a href="#">Find</a>	Searches for an element that matches the conditions defined by the specified predicate, and returns the first occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">FindAll</a>	Retrieves all the elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">FindIndex(Predicate(T))</a>	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 <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">FindIndex(Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that extends from the specified index to the last element. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">FindIndex(Int32, Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that starts at the specified index and contains the specified number of elements. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">FindLast</a>	Searches for an element that matches the conditions defined by the specified predicate, and returns the last occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">FindLastIndex(Predicate(T))</a>	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 <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">FindLastIndex(Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that extends from the first element to the specified index. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">FindLastIndex(Int32, Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that contains the specified number of elements and ends at the specified index. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">ForEach</a>	Performs the specified action on each element of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">GetEnumerator</a>	Returns an enumerator that iterates through the <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
 <a href="#">GetRange</a>	Creates a shallow copy of a range of elements in the source <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)

 <a href="#">IndexOf(T)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">IndexOf(T, Int32)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the <a href="#">List(T)</a> that extends from the specified index to the last element. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">IndexOf(T, Int32, Int32)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the <a href="#">List(T)</a> that starts at the specified index and contains the specified number of elements. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">Insert</a>	Inserts an element into the <a href="#">List(T)</a> at the specified index. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">InsertRange</a>	Inserts the elements of a collection into the <a href="#">List(T)</a> at the specified index. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">LastIndexOf(T)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">LastIndexOf(T, Int32)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the <a href="#">List(T)</a> that extends from the first element to the specified index. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">LastIndexOf(T, Int32, Int32)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the <a href="#">List(T)</a> that contains the specified number of elements and ends at the specified index. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">Remove</a>	Removes the first occurrence of a specific object from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">RemoveAll</a>	Removes all the elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">RemoveAt</a>	Removes the element at the specified index of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">RemoveRange</a>	Removes a range of elements from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">Reverse()</a>	Reverses the order of the elements in the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">Reverse(Int32, Int32)</a>	Reverses the order of the elements in the specified range. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">Sort()</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the default comparer. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">Sort(IComparer(T))</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the specified comparer. (Inherited from <a href="#">List(String)</a> .)

 <a href="#">Sort(Comparison(T))</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the specified <a href="#">Comparison(T)</a> . (Inherited from <a href="#">List(String)</a> .)
 <a href="#">Sort(Int32, Int32, IComparer(T))</a>	Sorts the elements in a range of elements in <a href="#">List(T)</a> using the specified comparer. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">ToArray</a>	Copies the elements of the <a href="#">List(T)</a> to a new array. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
 <a href="#">TrimExcess</a>	Sets the capacity to the actual number of elements in the <a href="#">List(T)</a> , if that number is less than a threshold value. (Inherited from <a href="#">List(String)</a> .)
 <a href="#">TrueForAll</a>	Determines whether every element in the <a href="#">List(T)</a> matches the conditions defined by the specified predicate. (Inherited from <a href="#">List(String)</a> .)

## Extension Methods

	Name	Description
 <a href="#">SaveAsCsv(String)</a>	Saves the list as CSV. (Defined by <a href="#">ListExtension</a> .)	

## See Also

[StringList Class](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

## StringList.StringList Type Conversions

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

### Operators

	Name	Description
 	<a href="#">Implicit(StringList toString[])</a>	Performs an implicit conversion from <a href="#">StringList</a> to <code>[!:System.String[]]</code> .

### See Also

[StringList Class](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

## StringList Implicit Conversion (StringList to String[])

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

**Namespace:** [SIGENCEScenarioTool.Datatypes.Standard](#)

**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](#)

The sl.

### Return Value

Type: [String\[\]](#)

The result of the conversion.

### See Also

[StringList Class](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

## SIGENCEScenarioTool.Extensions Namespace

### Classes

Class	Description
 <a href="#">ColorExtension</a>	
 <a href="#">DateTimeExtension</a>	
 <a href="#">DbCommandExtension</a>	
 <a href="#">DictionaryExtension</a>	Eine Erweiterungsklasse für Dictionary< TKey , TValue > und SortedDictionary< TKey , TValue > .
 <a href="#">FileInfoExtension</a>	Eine Erweiterungsklasse für System.IO.FileInfo .
 <a href="#">IDataReaderExtension</a>	
 <a href="#">IDbConnectionExtension</a>	
 <a href="#">ListExtension</a>	
 <a href="#">RandomExtension</a>	Eine Erweiterungsklasse für System.Random .
 <a href="#">SQLiteExtension</a>	
 <a href="#">StringBuilderExtension</a>	
 <a href="#">StringExtension</a>	Eine Erweiterungsklasse für unseren lieblichen String.
 <a href="#">TimeSpanExtension</a>	
 <a href="#">TypeExtension</a>	
 <a href="#"> XElementExtension</a>	

## ColorExtension Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.ColorExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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
	<a href="#">WithAlpha</a>	Returns The Color With Changed Alpha Value.

### See Also

[SIGENCEScenarioTool.Extensions Namespace](#)

## ColorExtension.ColorExtension Methods

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

### Methods

	Name	Description
	<a href="#">WithAlpha</a>	Returns The Color With Changed Alpha Value.

### See Also

[ColorExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## ColorExtension.WithAlpha Method

Returns The Color With Changed Alpha Value.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

*bAlpha*

Type: [System.Byte](#)

### Return Value

Type: [Color](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Color](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[ColorExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## DateTimeExtension Class

### Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.DateTimeExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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
 	<a href="#">DaysInMonth</a>	Dayes the in month.
 	<a href="#">Fmt_DD_MM_YYYY</a>	dd.MM.yyyy
 	<a href="#">Fmt_DD_MM_YYYY_HH_MM</a>	
 	<a href="#">Fmt_DD_MM_YYYY_HH_MM_SS</a>	dd.MM.yyyy, HH:mm:ss
 	<a href="#">Fmt_HH_MM_SS</a>	HH:mm:ss
 	<a href="#">Fmt_YYYYMMDD</a>	yyyyMMdd
 	<a href="#">Fmt_YYYYMMDD_HHMMSS</a>	yyyyMMdd_HHmmss
 	<a href="#">Fmt_YYYYMMDD_HHMMSSFFF</a>	yyyyMMdd_HHmmssfff
 	<a href="#">Fmt_YYYYMMDDHHMMSS</a>	yyyyMMddHHmmss

### See Also

[SIGENCEScenarioTool.Extensions Namespace](#)

## DateTimeExtension.DateTimeExtension Methods

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

### Methods

	Name	Description
 	<a href="#">DaysInMonth</a>	Dayes the in month.
 	<a href="#">Fmt_DD_MM_YYYY</a>	dd.MM.yyyy
 	<a href="#">Fmt_DD_MM_YYYY_HH_MM</a>	
 	<a href="#">Fmt_DD_MM_YYYY_HH_MM_SS</a>	dd.MM.yyyy, HH:mm:ss
 	<a href="#">Fmt_HH_MM_SS</a>	HH:mm:ss
 	<a href="#">Fmt_YYYYMMDD</a>	yyyyMMdd
 	<a href="#">Fmt_YYYYMMDD_HHMMSS</a>	yyyyMMdd_HHmmss
 	<a href="#">Fmt_YYYYMMDD_HHMMSSFFF</a>	yyyyMMdd_HHmmssfff
 	<a href="#">Fmt_YYYYMMDDHHMMSS</a>	yyyyMMddHHmmss

### See Also

[DateTimeExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## DateTimeExtension.DaysInMonth Method

Dayses the in month.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The dt.

### Return Value

Type: [Int32](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [DateTime](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[DateTimeExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

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

dd.MM.yyyy

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The dt.

### Return Value

Type: [String](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [DateTime](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[DateTimeExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

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

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

### Return Value

Type: [String](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [DateTime](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[DateTimeExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

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

dd.MM.yyyy, HH:mm:ss

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The dt.

### Return Value

Type: [String](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [DateTime](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[DateTimeExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

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

HH:mm:ss

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

### Return Value

Type: [String](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [DateTime](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[DateTimeExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## DateTimeExtension.Fmt\_YYYYMMDD Method

yyyyMMdd

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The *dt*.

### Return Value

Type: [String](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [DateTime](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[DateTimeExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## DateTimeExtension.Fmt\_YYYYMMDD\_HHMMSS Method

yyyyMMdd\_HHmmss

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The dt.

### Return Value

Type: [String](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [DateTime](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[DateTimeExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## DateTimeExtension.Fmt\_YYYYMMDD\_HHMMSSFFF Method

yyyyMMdd\_HHmmssfff

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

### Return Value

Type: [String](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [DateTime](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[DateTimeExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## DateTimeExtension.Fmt\_YYYYMMDDHHMMSS Method

yyyyMMddHHmmss

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The dt.

### Return Value

Type: [String](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [DateTime](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[DateTimeExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## DbCommandExtension Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.DbCommandExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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
 	<a href="#">ResetParameters</a>	Set alle Parameters to NULL.
 	<a href="#">SetNullableParamter(DbCommand, Int32, Object)</a>	Sets the nullable paramter.
 	<a href="#">SetNullableParamter(DbCommand, String, Object)</a>	Adds the nullable paramter.

### See Also

[SIGENCEScenarioTool.Extensions Namespace](#)

## DbCommandExtension.DbCommandExtension Methods

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

### Methods

	Name	Description
 	<a href="#">ResetParameters</a>	Set alle Parameters to NULL.
 	<a href="#">SetNullableParamter(DbCommand, Int32, Object)</a>	Sets the nullable paramter.
 	<a href="#">SetNullableParamter(DbCommand, String, Object)</a>	Adds the nullable paramter.

### See Also

[DbCommandExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## DbCommandExtension.ResetParameters Method

Set alle Parameters to NULL.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

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](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[DbCommandExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## DbCommandExtension.SetNullableParamter Method

### Overload List

	Name	Description
 S	<a href="#">SetNullableParamter(DbCommand, Int32, Object)</a>	Sets the nullable paramter.
 S	<a href="#">SetNullableParamter(DbCommand, String, Object)</a>	Adds the nullable paramter.

### See Also

[DbCommandExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

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

Sets the nullable paramter.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The database command.

*iParameterIndex*

Type: [System.Int32](#)

Index of the i parameter.

*o*

Type: [System.Object](#)

The o.

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [DbCommand](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[DbCommandExtension Class](#)

[SetNullableParamter Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

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

Adds the nullable paramter.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The database command.

*strParameterName*

Type: [System.String](#)

Name of the string parameter.

*o*

Type: [System.Object](#)

The o.

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [DbCommand](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[DbCommandExtension Class](#)

[SetNullableParamter Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## DictionaryExtension Class

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

### Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.DictionaryExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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
 	<a href="#">ForEach(TKey, TValue)(Dictionary(TKey, TValue), Action(TKey, TValue))</a>	Fors the each.
 	<a href="#">ForEach(TKey, TValue)(SortedDictionary(TKey, TValue), Action(TKey, TValue))</a>	Fors the each.
 	<a href="#">ToString(TKey, TValue)</a>	Returns a <a href="#">String</a> that represents this instance.

### See Also

[SIGENCEScenarioTool.Extensions Namespace](#)

## DictionaryExtension.DictionaryExtension Methods

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

### Methods

	Name	Description
 	<a href="#">ForEach(TKey, TValue)(Dictionary(TKey, TValue), Action(TKey, TValue))</a>	Fors the each.
 	<a href="#">ForEach(TKey, TValue)(SortedDictionary(TKey, TValue), Action(TKey, TValue))</a>	Fors the each.
 	<a href="#">ToString(TKey, TValue)</a>	Returns a <a href="#">String</a> that represents this instance.

### See Also

[DictionaryExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## DictionaryExtension.ForEach Method

### Overload List

	<b>Name</b>	<b>Description</b>
 <b>ForEach(TKey, TValue)(Dictionary(TKey, TValue), Action(TKey, TValue))</b>		Fors the each.
 <b>ForEach(TKey, TValue)(SortedDictionary(TKey, TValue), Action(TKey, TValue))</b>		Fors the each.

### See Also

[DictionaryExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

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

Fors the each.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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\(\*TKey\*, \*TValue\*\)](#)

The dict.

*action*

Type: [System.Action\(\*TKey\*, \*TValue\*\)](#)

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\(\*TKey\*, \*TValue\*\)](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[DictionaryExtension Class](#)

[ForEach Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

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

Fors the each.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)(*TKey*, *TValue*)

The dict.

*action*

Type: [System.Action](#)(*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](#)(*TKey*, *TValue*). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[DictionaryExtension Class](#)

[ForEach Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## DictionaryExtension.ToString(*TKey*, *TValue*) Method

Returns a [String](#) that represents this instance.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)(*TKey*, *TValue*)

The dictionary.

*cDivider*

Type: [System.Char](#)

The c divider.

### Type Parameters

*TKey*

The type of the key.

*TValue*

The type of the value.

### Return Value

Type: [String](#)

A [String](#) 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](#)(*TKey*, *TValue*). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[DictionaryExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## FileInfoExtension Class

Eine Erweiterungsklasse für System.IO.FileInfo .

### Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.FileInfoExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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
 	<a href="#">CopyTo(FileInfo, DirectoryInfo)</a>	Copies to file to a other directory.
 	<a href="#">CopyTo(FileInfo, DirectoryInfo, Boolean)</a>	Copies to.
 	<a href="#">GetFilenameWithoutExtension</a>	Gets the filename without extension.
 	<a href="#">GetFileSize</a>	Gets the size of the file.
 	<a href="#">MoveTo</a>	Moves to file to a other directory.

### See Also

[SIGENCEScenarioTool.Extensions Namespace](#)

## FileInfoExtension.FileInfoExtension Methods

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

### Methods

	Name	Description
 	<a href="#">CopyTo(FileInfo, DirectoryInfo)</a>	Copies to file to a other directory.
 	<a href="#">CopyTo(FileInfo, DirectoryInfo, Boolean)</a>	Copies to.
 	<a href="#">GetFilenameWithoutExtension</a>	Gets the filename without extension.
 	<a href="#">GetFileSize</a>	Gets the size of the file.
 	<a href="#">MoveTo</a>	Moves to file to a other directory.

### See Also

[FileInfoExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## FileInfoExtension.CopyTo Method

### Overload List

	<b>Name</b>	<b>Description</b>
 <b>S</b>	<a href="#">CopyTo(FileInfo, DirectoryInfo)</a>	Copies to file to a other directory.
 <b>S</b>	<a href="#">CopyTo(FileInfo, DirectoryInfo, Boolean)</a>	Copies to.

### See Also

[FileInfoExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## FileInfoExtension.CopyTo Method (FileInfo, DirectoryInfo)

Copies to file to a other directory.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The fi.

*di*

Type: [System.IO.DirectoryInfo](#)

The di.

### Return Value

Type: [FileInfo](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [FileInfo](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[FileInfoExtension Class](#)

[CopyTo Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## FileInfoExtension.CopyTo Method (FileInfo, DirectoryInfo, Boolean)

Copies to.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The fi.

*di*

Type: [System.IO.DirectoryInfo](#)

The di.

*bOverwrite*

Type: [System.Boolean](#)

if set to `true` [b overwrite].

### Return Value

Type: [FileInfo](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [FileInfo](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[FileInfoExtension Class](#)

[CopyTo Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## FileInfoExtension.GetFilenameWithoutExtension Method

Gets the filename without extension.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The *fi*.

### Return Value

Type: [String](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [FileInfo](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[FileInfoExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## FileInfoExtension.GetFileSize Method

Gets the size of the file.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The *fi*.

### Return Value

Type: [String](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [FileInfo](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[FileInfoExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## FileInfoExtension.MoveTo Method

Moves to file to a other directory.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The fi.

*diDirectory*

Type: [System.IO.DirectoryInfo](#)

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](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[FileInfoExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDataReaderExtension Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.IDataReaderExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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
	<a href="#">GetDateTimeOrNull</a>	Gets the date time or null.
	<a href="#">GetGeometryFromWKB</a>	
	<a href="#">GetInt32OrNull</a>	Gets the int32 or null.
	<a href="#">GetInt64OrNull</a>	Gets the int64 or null.
	<a href="#">GetLineStringFromWKB</a>	
	<a href="#">GetMultiPolygonFromWKB</a>	
	<a href="#">GetPointFromWKB</a>	
	<a href="#">GetPolygonFromWKB</a>	
	<a href="#">GetStringOrNull</a>	Gets the string or null.

### See Also

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDataReaderExtension.IDataReaderExtension Methods

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

### Methods

	<b>Name</b>	<b>Description</b>
	<a href="#">GetDateTimeOrNull</a>	Gets the date time or null.
	<a href="#">GetGeometryFromWKB</a>	
	<a href="#">GetInt32OrNull</a>	Gets the int32 or null.
	<a href="#">GetInt64OrNull</a>	Gets the int64 or null.
	<a href="#">GetLineStringFromWKB</a>	
	<a href="#">GetMultiPolygonFromWKB</a>	
	<a href="#">GetPointFromWKB</a>	
	<a href="#">GetPolygonFromWKB</a>	
	<a href="#">GetStringOrNull</a>	Gets the string or null.

### See Also

[IDataReaderExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDataReaderExtension.GetDateTimeOrNull Method

Gets the date time or null.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The database result.

*iColumnIndex*

Type: [System.Int32](#)

Index of the i column.

### Return Value

Type: [Nullable\(DateTime\)](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDataReader](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[IDataReaderExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDataReaderExtension.GetGeometryFromWKB Method

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

*iColumnIndex*

Type: [System.Int32](#)

*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](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[IDataReaderExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDataReaderExtension.GetInt32OrNull Method

Gets the int32 or null.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The database result.

*iColumnIndex*

Type: [System.Int32](#)

Index of the i column.

#### Return Value

Type: [Nullable\(Int32\)](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDataReader](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[IDataReaderExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDataReaderExtension.GetInt64OrNull Method

Gets the int64 or null.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The database result.

*iColumnIndex*

Type: [System.Int32](#)

Index of the i column.

#### Return Value

Type: [Nullable\(Int64\)](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDataReader](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[IDataReaderExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDataReaderExtension.GetLineStringFromWKB Method

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

*iColumnIndex*

Type: [System.Int32](#)

*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](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[IDataReaderExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDataReaderExtension.GetMultiPolygonFromWKB Method

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

*iColumnIndex*

Type: [System.Int32](#)

*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](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[IDataReaderExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDataReaderExtension.GetPointFromWKB Method

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

*iColumnIndex*

Type: [System.Int32](#)

*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](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[IDataReaderExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDataReaderExtension.GetPolygonFromWKB Method

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

*iColumnIndex*

Type: [System.Int32](#)

*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](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[IDataReaderExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDataReaderExtension.GetStringOrNull Method

Gets the string or null.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The database result.

*iColumnIndex*

Type: [System.Int32](#)

Index of the i column.

#### Return Value

Type: [String](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDataReader](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[IDataReaderExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDbConnectionExtension Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.IDbConnectionExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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
 	<a href="#">CloseIfOpen</a>	Closes if open.
 	<a href="#">ExecuteNonQuery(IDbConnection, String, Object[])</a>	Exeutes the non query.
 	<a href="#">ExecuteNonQuery(IDbConnection, Int32, Boolean, String, Object[])</a>	Executes the non query.
 	<a href="#">ExecuteScalar(IDbConnection, String, Object[])</a>	Executes the scalar.
 	<a href="#">ExecuteScalar(IDbConnection, Int32, String, Object[])</a>	Executes the scalar.
 	<a href="#">GetDictionary(T1, T2)</a>	Gets the dictionary.
 	<a href="#">GetSortedDictionary(T1, T2)</a>	Liefert das Ergebnis eines Statements als SortedDictionary zurück.
 	<a href="#">SaveAsCSV</a>	Exports the CSV.
 	<a href="#">Select(IDbConnection, String)</a>	Selects the specified db connection.
 	<a href="#">Select(IDbConnection, String, Object[])</a>	Selects the specified db connection.
 	<a href="#">SelectAsDataTable</a>	Selects as data table.

**See Also**

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDbConnectionExtension.IDbConnectionExtension Methods

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

### Methods

	<b>Name</b>	<b>Description</b>
 	<a href="#">CloseIfOpen</a>	Closes if open.
 	<a href="#">ExecuteNonQuery(IDbConnection, String, Object[])</a>	Exeutes the non query.
 	<a href="#">ExecuteNonQuery(IDbConnection, Int32, Boolean, String, Object[])</a>	Executes the non query.
 	<a href="#">ExecuteScalar(IDbConnection, String, Object[])</a>	Executes the scalar.
 	<a href="#">ExecuteScalar(IDbConnection, Int32, String, Object[])</a>	Executes the scalar.
 	<a href="#">GetDictionary(T1, T2)</a>	Gets the dictionary.
 	<a href="#">GetSortedDictionary(T1, T2)</a>	Liefert das Ergebnis eines Statements als SortedDictionary zurück.
 	<a href="#">SaveAsCSV</a>	Exports the CSV.
 	<a href="#">Select(IDbConnection, String)</a>	Selects the specified db connection.
 	<a href="#">Select(IDbConnection, String, Object[])</a>	Selects the specified db connection.
 	<a href="#">SelectAsDataTable</a>	Selects as data table.

### See Also

[IDbConnectionExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDbConnectionExtension.CloseIfOpen Method

Closes if open.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The db connection.

*bIgnoreCloseException* (Optional)

Type: [System.Boolean](#)

if set to `true` [b ignore close exception].

### Return Value

Type: [Boolean](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDbConnection](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[IDbConnectionExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDbConnectionExtension.ExecuteNonQuery Method

### Overload List

	<b>Name</b>	<b>Description</b>
	<a href="#">ExecuteNonQuery(IDbConnection, String, Object[])</a>	Exceutes the non query.
	<a href="#">ExecuteNonQuery(IDbConnection, Int32, Boolean, String, Object[])</a>	Executes the non query.

### See Also

[IDbConnectionExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDbConnectionExtension.ExecuteNonQuery Method (IDbConnection, String, Object[])

Executes the non query.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The db connection.

*strFormat*

Type: [System.String](#)

The STR format.

*args*

Type: [System.Object](#)[]

The args.

#### Return Value

Type: [Int32](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDbConnection](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[IDbConnectionExtension Class](#)

[ExecuteNonQuery Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDbConnectionExtension.ExecuteNonQuery Method (IDbConnection, Int32, Boolean, String, Object[])

Executes the non query.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The database connection.

*iTimeout*

Type: [System.Int32](#)

The i timeout.

*bTransaction*

Type: [System.Boolean](#)

if set to `true` [b transaction].

*strFormat*

Type: [System.String](#)

The string format.

*args*

Type: [System.Object\[\]](#)

The arguments.

#### Return Value

Type: [Int32](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDbConnection](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

**See Also**

[IDbConnectionExtension Class](#)

[ExecuteNonQuery Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDbConnectionExtension.ExecuteScalar Method

### Overload List

	Name	Description
 S	<a href="#">ExecuteScalar(IDbConnection, String, Object[])</a>	Executes the scalar.
 S	<a href="#">ExecuteScalar(IDbConnection, Int32, String, Object[])</a>	Executes the scalar.

### See Also

[IDbConnectionExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDbConnectionExtension.ExecuteScalar Method (IDbConnection, String, Object[])

Executes the scalar.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The database connection.

*strFormat*

Type: [System.String](#)

The string format.

*args*

Type: [System.Object](#)[]

The arguments.

#### Return Value

Type: [Object](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDbConnection](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[IDbConnectionExtension Class](#)

[ExecuteScalar Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDbConnectionExtension.ExecuteScalar Method (IDbConnection, Int32, String, Object[])

Executes the scalar.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The db connection.

*iTimeOut*

Type: [System.Int32](#)

The i time out.

*strFormat*

Type: [System.String](#)

The STR format.

*args*

Type: [System.Object](#)[]

The args.

#### Return Value

Type: [Object](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDbConnection](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[IDbConnectionExtension Class](#)

[ExecuteScalar Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDbConnectionExtension.GetDictionary(*T1, T2*) Method

Gets the dictionary.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The database connection.

*strSelectStatement*

Type: [System.String](#)

The string select statement.

#### Type Parameters

*T1*

The type of the 1.

*T2*

The type of the 2.

#### Return Value

Type: [Dictionary\(\*T1, T2\*\)](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDbConnection](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[IDbConnectionExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDbConnectionExtension.GetSortedDictionary(*T1, T2*) Method

Liefert das Ergebnis eines Statements als SortedDictionary zurück.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The database connection.

*strSelectStatement*

Type: [System.String](#)

The string select statement.

#### Type Parameters

*T1*

The type of the 1.

*T2*

The type of the 2.

#### Return Value

Type: [SortedDictionary](#)(*T1, T2*)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDbConnection](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[IDbConnectionExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDbConnectionExtension.SaveAsCSV Method

Exports the CSV.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The db connection.

*strSelectStatement*

Type: [System.String](#)

The STR select statement.

*fiExportFile*

Type: [System.IO.FileInfo](#)

The fi export file.

*cDivider*

Type: [System.Char](#)

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](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[IDbConnectionExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDbConnectionExtension.Select Method

### Overload List

	Name	Description
 S	<a href="#">Select(IDbConnection, String)</a>	Selects the specified db connection.
 S	<a href="#">Select(IDbConnection, String, Object[])</a>	Selects the specified db connection.

### See Also

[IDbConnectionExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDbConnectionExtension.Select Method (IDbConnection, String)

Selects the specified db connection.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

Die aktuelle Datenbankverbindung.

*strSelectStatement*

Type: [System.String](#)

The STR select statement.

#### Return Value

Type: [IEnumerable\(IDataReader\)](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDbConnection](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[IDbConnectionExtension Class](#)

[Select Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDbConnectionExtension.Select Method (IDbConnection, String, Object[])

Selects the specified db connection.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The db connection.

*strFormat*

Type: [System.String](#)

The STR format.

*args*

Type: [System.Object\[\]](#)

The args.

#### Return Value

Type: [IEnumerable\(IDataReader\)](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDbConnection](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[IDbConnectionExtension Class](#)

[Select Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## IDbConnectionExtension.SelectAsDataTable Method

Selects as data table.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The database connection.

*strResultTableName*

Type: [System.String](#)

Name of the string result table.

*strFormat*

Type: [System.String](#)

The string format.

*args*

Type: [System.Object](#)[]

The arguments.

#### Return Value

Type: [DataTable](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IDbConnection](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[IDbConnectionExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## ListExtension Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.ListExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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
 	<a href="#">SaveAsCsv(T)</a>	Saves the list as CSV.
 	<a href="#">SaveAsXml(T)</a>	Saves the list as XML.

### See Also

[SIGENCEScenarioTool.Extensions Namespace](#)

## ListExtension.ListExtension Methods

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

### Methods

	Name	Description
	<a href="#">SaveAsCsv(T)</a>	Saves the list as CSV.
	<a href="#">SaveAsXml(T)</a>	Saves the list as XML.

### See Also

[ListExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## ListExtension.SaveAsCsv(*T*) Method

Saves the list as CSV.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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\(\*T\*\)](#)

The *l* values.

#### *strOutputFilename*

Type: [System.String](#)

The string output filename.

#### *bUseQuotationMark* (Optional)

Type: [System.Boolean](#)

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\(\*T\*\)](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### Exceptions

Exception	Condition
<a href="#">ArgumentException</a>	Die Liste darf nicht leer sein! - <i>lValues</i> or Der Ausgabedateiname darf nicht leer sein! - <i>strOutputFilename</i>
<a href="#">ArgumentException</a>	Die Liste darf nicht leer sein! - <i>lValues</i> or Der Ausgabedateiname darf nicht leer sein! - <i>strOutputFilename</i>

### See Also

[ListExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## ListExtension.SaveAsXml(*T*) Method

Saves the list as XML.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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\(\*T\*\)](#)

The *l* values.

##### *strOutputFilename*

Type: [System.String](#)

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\(\*T\*\)](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[ListExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## RandomExtension Class

Eine Erweiterungsklasse für System.Random .

### Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.RandomExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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
 	<a href="#">NextAutoKennzeichen</a>	Nexts the automatic kennzeichen.
 	<a href="#">NextBool</a>	Liefert einen Zufalls Boolschen Wert zurück.
 	<a href="#">NextColor</a>	Returns the next Color.
 	<a href="#">NextDateTime(Random, DateTimeKind)</a>	Nexts the date time.
 	<a href="#">NextDateTime(Random, DateTime, DateTimeKind)</a>	Nexts the date time.
 	<a href="#">NextEnum(Random, Type)</a>	Nexts the enum.
 	<a href="#">NextEnum(T)(Random)</a>	Liefert einen zufälligen Enumeration Wert zu einer Enumeration zurück.
 	<a href="#">NextInt</a>	Der Vollständigkeit wegen.
 	<a href="#">NextLong</a>	Nexts the long.
 	<a href="#">NextObject(T)(Random, ICollection(T))</a>	Nexts the object.
 	<a href="#">NextObject(T)(Random, IList(T))</a>	Nexts the object.

 	<a href="#"><u>NextSalt</u></a>	Nexts the salt.
 	<a href="#"><u>NextString</u></a>	Nexts the string.
 	<a href="#"><u>NextUInt</u></a>	Der Vollständigkeit wegen.
 	<a href="#"><u>NextULong</u></a>	Nexts the u long.

See Also

[SIGENCEScenarioTool.Extensions Namespace](#)

## RandomExtension.RandomExtension Methods

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

### Methods

	<b>Name</b>	<b>Description</b>
 	<a href="#">NextAutoKennzeichen</a>	Nexts the automatic kennzeichen.
 	<a href="#">NextBool</a>	Liefert einen Zufalls Boolischen Wert zurück.
 	<a href="#">NextColor</a>	Returns the next Color.
 	<a href="#">NextDateTime(Random, DateTimeKind)</a>	Nexts the date time.
 	<a href="#">NextDateTime(Random, DateTime, DateTimeKind)</a>	Nexts the date time.
 	<a href="#">NextEnum(Random, Type)</a>	Nexts the enum.
 	<a href="#">NextEnum(T)(Random)</a>	Liefert einen zufälligen Enumeration Wert zu einer Enumeration zurück.
 	<a href="#">NextInt</a>	Der Vollständigkeit wegen.
 	<a href="#">NextLong</a>	Nexts the long.
 	<a href="#">NextObject(T)(Random, ICollection(T))</a>	Nexts the object.
 	<a href="#">NextObject(T)(Random, IList(T))</a>	Nexts the object.
 	<a href="#">NextSalt</a>	Nexts the salt.
 	<a href="#">NextString</a>	Nexts the string.
 	<a href="#">NextUInt</a>	Der Vollständigkeit wegen.
 	<a href="#">NextULong</a>	Nexts the u long.

### See Also

[RandomExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## RandomExtension.NextAutoKennzeichen Method

Nexts the automatic kennzeichen.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The *r*.

### Return Value

Type: [String](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RandomExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## RandomExtension.NextBool Method

Liefert einen Zufalls Boolschen Wert zurück.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The current random object

### Return Value

Type: [Boolean](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RandomExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## RandomExtension.NextColor Method

Returns the next Color.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The *r*.

### Return Value

Type: [Color](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RandomExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## RandomExtension.NextDateTime Method

### Overload List

	Name	Description
 S	<a href="#">NextDateTime(Random, DateTimeKind)</a>	Nexts the date time.
 S	<a href="#">NextDateTime(Random, DateTime, DateTime, DateTimeKind)</a>	Nexts the date time.

### See Also

[RandomExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## RandomExtension.NextDateTime Method (Random, DateTimeKind)

Nexts the date time.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The r.

*dtk* (Optional)

Type: [System.DateTimeKind](#)

The DTK.

### Return Value

Type: [DateTime](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RandomExtension Class](#)

[NextDateTime Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## RandomExtension.NextDateTime Method (Random, DateTime, DateTime, DateTimeKind)

Nexts the date time.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The r.

*dtMin*

Type: [System.DateTime](#)

The dt minimum.

*dtMax*

Type: [System.DateTime](#)

The dt maximum.

*dtk* (Optional)

Type: [System.DateTimeKind](#)

The DTK.

### Return Value

Type: [DateTime](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RandomExtension Class](#)

[NextDateTime Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## RandomExtension.NextEnum Method

### Overload List

	Name	Description
 	<a href="#">NextEnum(T)(Random)</a>	Liefert einen zufälligen Enumeration Wert zu einer Enumeration zurück.
 	<a href="#">NextEnum(Random, Type)</a>	Nexts the enum.

### See Also

[RandomExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## RandomExtension.NextEnum(*T*) Method (Random)

Liefert einen zufälligen Enumeration Wert zu einer Enumeration zurück.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

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](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RandomExtension Class](#)

[NextEnum Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## RandomExtension.NextEnum Method (Random, Type)

Nexts the enum.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The *r*.

*tEnum*

Type: [System.Type](#)

The *t* enum.

### Return Value

Type: [Int32](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RandomExtension Class](#)

[NextEnum Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## RandomExtension.NextInt Method

Der Vollständigkeit wegen.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The *r*.

### Return Value

Type: [Int32](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RandomExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## RandomExtension.NextLong Method

Nexts the long.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The *r*.

### Return Value

Type: [Int64](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RandomExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## RandomExtension.NextObject Method

### Overload List

	Name	Description
 S	<a href="#">NextObject(T)(Random, ICollection(T))</a>	Nexts the object.
 S	<a href="#">NextObject(T)(Random, IList(T))</a>	Nexts the object.

### See Also

[RandomExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## RandomExtension.NextObject(*T*) Method (Random, ICollection(*T*))

Nexts the object.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The *r*.

#### *cValues*

Type: [System.Collections.Generic.ICollection](#)(*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](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[RandomExtension Class](#)

[NextObject Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## RandomExtension.NextObject(*T*) Method (Random, IList(*T*))

Nexts the object.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The *r*.

#### *lValues*

Type: [System.Collections.Generic.IList\(T\)](#)

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](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[RandomExtension Class](#)

[NextObject Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## RandomExtension.NextSalt Method

Nexts the salt.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The *r*.

*iSaltLength* (Optional)

Type: [System.Int32](#)

Length of the *i* salt.

### Return Value

Type: [String](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RandomExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## RandomExtension.NextString Method

Nexsts the string.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The r.

*iMinLength*

Type: [System.Int32](#)

Length of the i min.

*iMaxLength*

Type: [System.Int32](#)

Length of the i max.

### Return Value

Type: [String](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RandomExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## RandomExtension.NextUInt Method

Der Vollständigkeit wegen.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The *r*.

### Return Value

Type: [UInt32](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RandomExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## RandomExtension.NextULong Method

Nexts the u long.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The *r*.

### Return Value

Type: [UInt64](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Random](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RandomExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## SQLiteExtension Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.SQLiteExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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
	<a href="#">Analyze</a>	Analyzes the specified database connection.
	<a href="#">DropTable</a>	Drops the table.
	<a href="#">GetLastPrimarykey</a>	Gets the last primarykey.
	<a href="#">GetTableNames</a>	Gets the table names.
	<a href="#">GetViewNames</a>	Gets the view names.
	<a href="#">PrepareInsertStatement</a>	Prepares the insert statement.
	<a href="#">Reindex</a>	Reindexes the specified database connection.
	<a href="#">TableExists</a>	Tables the exists.
	<a href="#">Truncate</a>	Truncates the specified string tablename.
	<a href="#">Vacuum</a>	Vacuums the specified database connection.

### See Also

[SIGENCEScenarioTool.Extensions Namespace](#)

## SQLiteExtension.SQLiteExtension Methods

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

### Methods

	Name	Description
 S	<a href="#">Analyze</a>	Analyzes the specified database connection.
 S	<a href="#">DropTable</a>	Drops the table.
 S	<a href="#">GetLastPrimarykey</a>	Gets the last primarykey.
 S	<a href="#">GetTableNames</a>	Gets the table names.
 S	<a href="#">GetViewNames</a>	Gets the view names.
 S	<a href="#">PrepareInsertStatement</a>	Prepares the insert statement.
 S	<a href="#">Reindex</a>	Reindexes the specified database connection.
 S	<a href="#">TableExists</a>	Tables the exists.
 S	<a href="#">Truncate</a>	Truncates the specified string tablename.
 S	<a href="#">Vacuum</a>	Vacuums the specified database connection.

### See Also

[SQLiteExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## SQLiteExtension.Analyze Method

Analyzes the specified database connection.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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 \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[SQLiteExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## SQLiteExtension.DropTable Method

Drops the table.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

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 \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[SQLiteExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## SQLiteExtension.GetLastPrimarykey Method

Gets the last primarykey.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

### 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 \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[SQLiteExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## SQLiteExtension.GetTableNames Method

Gets the table names.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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\(String\)](#)

### 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 \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[SQLiteExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## SQLiteExtension.GetViewNames Method

Gets the view names.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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\(String\)](#)

### 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 \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[SQLiteExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## SQLiteExtension.PrepareInsertStatement Method

Prepares the insert statement.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The string tablename.

*bIgnorePrimaryKey* (Optional)

Type: [System.Boolean](#)

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 \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[SQLiteExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## SQLiteExtension.Reindex Method

Reindexes the specified database connection.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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 \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[SQLiteExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## SQLiteExtension.TableExists Method

Tables the exists.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The STR tablename.

#### Return Value

Type: [Boolean](#)

#### 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 \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[SQLiteExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## SQLiteExtension.Truncate Method

Truncates the specified string tablename.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

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 \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[SQLiteExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## SQLiteExtension.Vacuum Method

Vacuums the specified database connection.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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 \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[SQLiteExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## StringBuilderExtension Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.StringBuilderExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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
	<a href="#">AppendLine</a>	Appends the line.

### See Also

[SIGENCEScenarioTool.Extensions Namespace](#)

## StringBuilderExtension.StringBuilderExtension Methods

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

### Methods

	Name	Description
	<a href="#">AppendLine</a>	Appends the line.

### See Also

[StringBuilderExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## StringBuilderExtension.AppendLine Method

Appends the line.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The sb.

*strFormat*

Type: [System.String](#)

The string format.

*param*

Type: [System.Object\[\]](#)

The parameter.

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [StringBuilder](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[StringBuilderExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## StringExtension Class

Eine Erweiterungsklasse für unseren lieblichen String.

### Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.StringExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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
 	<a href="#">Capitalize</a>	Capitalizes the specified string content.
 	<a href="#">CapitalizeOnlyFirstLetter</a>	Capitalizes the only first letter.
 	<a href="#">EqualsIgnoreCase</a>	Vergleicht zwei String wobei nicht zwischen Groß- und Kleinschreibung unterschieden wird.
 	<a href="#">IsEmpty</a>	Liefert zurück ob ein String null oder dessen Länge 0 ist.
 	<a href="#">IsNotEmpty</a>	Liefert zurück ob ein String nicht null oder dessen Länge > 0 ist.
 	<a href="#">RemoveQuotation</a>	Removes the quotation.
 	<a href="#">ReplaceHtml</a>	Replaces the HTML.
 	<a href="#">ToColor</a>	Liefert aus einem String wie z.b. "#FFAACC" den Farbwert als Color Objekt zurück.

### See Also

[SIGENCEScenarioTool.Extensions Namespace](#)

## StringExtension.StringExtension Methods

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

### Methods

	Name	Description
	<a href="#">Capitalize</a>	Capitalizes the specified string content.
	<a href="#">CapitalizeOnlyFirstLetter</a>	Capitalizes the only first letter.
	<a href="#">EqualsIgnoreCase</a>	Vergleicht zwei String wobei nicht zwischen Groß- und Kleinschreibung unterschieden wird.
	<a href="#">IsEmpty</a>	Liefert zurück ob ein String null oder dessen Länge 0 ist.
	<a href="#">IsNotEmpty</a>	Liefert zurück ob ein String nicht null oder dessen Länge > 0 ist.
	<a href="#">RemoveQuotation</a>	Removes the quotation.
	<a href="#">ReplaceHtml</a>	Replaces the HTML.
	<a href="#">ToColor</a>	Liefert aus einem String wie z.b. "#FFAACC" den Farbwert als Color Objekt zurück.

### See Also

[StringExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## StringExtension.Capitalize Method

Capitalizes the specified string content.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

Content of the string.

### Return Value

Type: [String](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [String](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[StringExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## StringExtension.CapitalizeOnlyFirstLetter Method

Capitalizes the only first letter.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

Content of the string.

### Return Value

Type: [String](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [String](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[StringExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## StringExtension.EqualsIgnoreCase Method

Vergleicht zwei String wobei nicht zwischen Groß- und Kleinschreibung unterschieden wird.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

Content of the string.

*strOtherString*

Type: [System.String](#)

The string other string.

#### Return Value

Type: [Boolean](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [String](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[StringExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## StringExtension.IsEmpty Method

Liefert zurück ob ein String null oder dessen Länge 0 ist.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

### Return Value

Type: [Boolean](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [String](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[StringExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## StringExtension.IsEmpty Method

Liefert zurück ob ein String nicht null oder dessen Länge > 0 ist.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

### Return Value

Type: [Boolean](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [String](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[StringExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## StringExtension.RemoveQuotation Method

Removes the quotation.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

Content of the STR.

### Return Value

Type: [String](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [String](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[StringExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## StringExtension.ReplaceHtml Method

Replaces the HTML.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

Content of the STR.

### Return Value

Type: [String](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [String](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[StringExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## StringExtension.ToColor Method

Liefert aus einem String wie z.b. "#FFAACC" den Farbwert als Color Objekt zurück.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

*cDefault*

Type: [System.Windows.Media.Color](#)

### Return Value

Type: [Color](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [String](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### Remarks

Es könnten auch die .NET symbolischen Farbnamen wie "SlateBlue" übergeben werden.

### See Also

[StringExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## TimeSpanExtension Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.TimeSpanExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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
 	<a href="#">ToHHMMSSString</a>	To the HHMMSS string.
 	<a href="#">.ToShortString</a>	Returns a <a href="#">String</a> that represents this instance.

### See Also

[SIGENCEScenarioTool.Extensions Namespace](#)

## TimeSpanExtension.TimeSpanExtension Methods

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

### Methods

	Name	Description
	<a href="#">ToHHMMSSString</a>	To the HHMMSS string.
	<a href="#">ToShortString</a>	Returns a <a href="#">String</a> that represents this instance.

### See Also

[TimeSpanExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## TimeSpanExtension.ToHHMMSSString Method

To the HHMMSS string.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The *ts*.

### Return Value

Type: [String](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [TimeSpan](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[TimeSpanExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## TimeSpanExtension.ToShortString Method

Returns a [String](#) that represents this instance.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The *ts*.

### Return Value

Type: [String](#)

A [String](#) 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](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[TimeSpanExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## TypeExtension Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.TypeExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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
 	<a href="#">DerivedFromType</a>	Check if the class is derived from a other class.
 	<a href="#">ImplementsInterface</a>	Check if the class implements the interface.

### See Also

[SIGENCEScenarioTool.Extensions Namespace](#)

## TypeExtension.TypeExtension Methods

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

### Methods

	Name	Description
 	<a href="#">DerivedFromType</a>	Check if the class is derived from a other class.
 	<a href="#">ImplementsInterface</a>	Check if the class implements the interface.

### See Also

[TypeExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## TypeExtension.DerivedFromType Method

Check if the class is derived from a other class.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The t class.

*tBase*

Type: [System.Type](#)

The t base.

#### Return Value

Type: [Boolean](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Type](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[TypeExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## TypeExtension.ImplementsInterface Method

Check if the class implements the interface.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The t class.

*tInterface*

Type: [System.Type](#)

The t interface.

### Return Value

Type: [Boolean](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Type](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[TypeExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.XElementExtension

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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
	<a href="#">GetBitmapSourceFromNode</a>	Gets the bitmap source from node.
	<a href="#">GetBoolAttribute</a>	Gets the bool attribute.
	<a href="#">GetBoolFromNode</a>	Gets the bool from node.
	<a href="#">GetColorFromNode</a>	Gets the color from node.
	<a href="#">GetDateTimeAttribute</a>	Gets the date time attribute.
	<a href="#">GetDateTimeFromNodeUTC</a>	Gets the date time from node UTC.
	<a href="#">GetDirectoryInfoFromNode</a>	Gets the directory information from node.
	<a href="#">GetDoubleAttribute</a>	Gets the double attribute.
	<a href="#">GetDoubleFromNode</a>	Gets the double from node.
	<a href="#">GetDoubleFromNodeComma</a>	Gets the double from node comma.
	<a href="#">GetDoubleFromNodePoint</a>	Gets the double from node point.
	<a href="#">GetEnumFromNode(T)</a>	Gets the enum from node.

 	<a href="#">GetFileInfoFromNode</a>	Gets the file information from node.
		
 	<a href="#">GetGuidFromNode</a>	Gets the unique identifier from node.
		
 	<a href="#">GetInt32Attribute</a>	Gets the int32 attribute.
		
 	<a href="#">GetInt32FromNode</a>	Gets the int32 from node.
		
 	<a href="#">GetInt64Attribute</a>	Gets the int64 attribute.
		
 	<a href="#">GetLongFromNode</a>	Gets the long from node.
		
 	<a href="#">GetProperty(T)</a>	Gets the property.
		
 	<a href="#">GetSingleAttribute</a>	Gets the single attribute.
		
 	<a href="#">GetSingleFromNode</a>	Gets the single from node.
		
 	<a href="#">GetSingleFromNodeComma</a>	Gets the single from node comma.
		
 	<a href="#">GetSingleFromNodePoint</a>	Gets the single from node point.
		
 	<a href="#">GetStringAttribute</a>	Gets the string attribute.
		
 	<a href="#">GetStringFromCData</a>	Liefert den ersten CData Eintrag des Knotens wenn einer vorhanden ist.
		
 	<a href="#">GetStringFromNode(XElement, String)</a>	Gets the string from node.
		
 	<a href="#">GetStringFromNode(XElement, String, String)</a>	Gets the string from node.
		
	<a href="#">GetUInt32Attribute</a>	Gets the u int32 attribute.
	<a href="#">GetUInt32FromNode</a>	Gets the u int32 from node.
	<a href="#">GetXElement</a>	Gets the x element.
	<a href="#">SaveDefault</a>	Speichert einen XML Baum mit den Standardoptionen.
	<a href="#">ToDefaultString</a>	To the default string.

See Also

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.XElementExtension Methods

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

### Methods

	Name	Description
 	<a href="#">GetBitmapSourceFromNode</a>	Gets the bitmap source from node.
		
 	<a href="#">GetBoolAttribute</a>	Gets the bool attribute.
		
 	<a href="#">GetBoolFromNode</a>	Gets the bool from node.
		
 	<a href="#">GetColorFromNode</a>	Gets the color from node.
		
 	<a href="#">GetDateTimeAttribute</a>	Gets the date time attribute.
		
 	<a href="#">GetDateTimeFromNodeUTC</a>	Gets the date time from node UTC.
		
 	<a href="#">GetDirectoryInfoFromNode</a>	Gets the directory information from node.
		
 	<a href="#">GetDoubleAttribute</a>	Gets the double attribute.
		
 	<a href="#">GetDoubleFromNode</a>	Gets the double from node.
		
 	<a href="#">GetDoubleFromNodeComma</a>	Gets the double from node comma.
		
 	<a href="#">GetDoubleFromNodePoint</a>	Gets the double from node point.
		
 	<a href="#">GetEnumFromNode(T)</a>	Gets the enum from node.
		
 	<a href="#">GetFileInfoFromNode</a>	Gets the file information from node.
		
 	<a href="#">GetGuidFromNode</a>	Gets the unique identifier from node.
		
 	<a href="#">GetInt32Attribute</a>	Gets the int32 attribute.
		
 	<a href="#">GetInt32FromNode</a>	Gets the int32 from node.
		
 	<a href="#">GetInt64Attribute</a>	Gets the int64 attribute.
		

 	<a href="#">GetLongFromNode</a>	Gets the long from node.
		
 	<a href="#">GetProperty(T)</a>	Gets the property.
		
 	<a href="#">GetSingleAttribute</a>	Gets the single attribute.
		
 	<a href="#">GetSingleFromNode</a>	Gets the single from node.
		
 	<a href="#">GetSingleFromNodeComma</a>	Gets the single from node comma.
		
 	<a href="#">GetSingleFromNodePoint</a>	Gets the single from node point.
		
 	<a href="#">GetStringAttribute</a>	Gets the string attribute.
		
 	<a href="#">GetStringFromCData</a>	Liefert den ersten CData Eintrag des Knotens wenn einer vorhanden ist.
		
 	<a href="#">GetStringFromNode(XElement, String)</a>	Gets the string from node.
		
 	<a href="#">GetStringFromNode(XElement, String, String)</a>	Gets the string from node.
		
 	<a href="#">GetUInt32Attribute</a>	Gets the u int32 attribute.
		
 	<a href="#">GetUInt32FromNode</a>	Gets the u int32 from node.
		
 	<a href="#">GetXElement</a>	Gets the x element.
		
 	<a href="#">SaveDefault</a>	Speichert einen XML Baum mit den Standardoptionen.
		
 	<a href="#">ToDefaultString</a>	To the default string.
		

## See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetBitmapSourceFromNode Method

Gets the bitmap source from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static BitmapSource GetBitmapSourceFromNode(
    XElement xCurrentElement,
    string strElementName
)
```

#### Parameters

*xCurrentElement*

Type: [System.Xml.Linq.XElement](#)

The x current element.

*strElementName*

Type: [System.String](#)

Name of the string element.

#### Return Value

Type: [BitmapSource](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetBoolAttribute Method

Gets the bool attribute.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The e parent.

*strName*

Type: [System.String](#)

Name of the string.

### Return Value

Type: [Nullable\(Boolean\)](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetBoolFromNode Method

Gets the bool from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The x current element.

*strElementName*

Type: [System.String](#)

Name of the string element.

#### Return Value

Type: [Nullable\(Boolean\)](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetColorFromNode Method

Gets the color from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static Color GetColorFromNode(  
    XElement xCurrentElement,  
    string strElementName,  
    Color cDefault  
)
```

#### Parameters

*xCurrentElement*

Type: [System.Xml.Linq.XElement](#)

The x current element.

*strElementName*

Type: [System.String](#)

Name of the string element.

*cDefault*

Type: [System.Windows.Media.Color](#)

The c default.

#### Return Value

Type: [Color](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type  [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetDateTimeAttribute Method

Gets the date time attribute.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The e parent.

*strName*

Type: [System.String](#)

Name of the string.

*bIsUTC* (Optional)

Type: [System.Boolean](#)

if set to `true` [b is UTC].

### Return Value

Type: [Nullable\(DateTime\)](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type  [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetDateTimeFromNodeUTC Method

Gets the date time from node UTC.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The x current element.

*strElementName*

Type: [System.String](#)

Name of the string element.

#### Return Value

Type: [Nullable\(DateTime\)](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetDirectoryInfoFromNode Method

Gets the directory information from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static DirectoryInfo GetDirectoryInfoFromNode (
    XElement xCurrentElement,
    string strElementName,
    DirectoryInfo diDefault
)
```

#### Parameters

*xCurrentElement*

Type: [System.Xml.Linq.XElement](#)

The x current element.

*strElementName*

Type: [System.String](#)

Name of the string element.

*diDefault*

Type: [System.IO.DirectoryInfo](#)

The di default.

#### Return Value

Type: [DirectoryInfo](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type  [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetDoubleAttribute Method

Gets the double attribute.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The e parent.

*strName*

Type: [System.String](#)

Name of the string.

### Return Value

Type: [Nullable\(Double\)](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetDoubleFromNode Method

Gets the double from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The x current element.

*strElementName*

Type: [System.String](#)

Name of the string element.

#### Return Value

Type: [Nullable\(Double\)](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetDoubleFromNodeComma Method

Gets the double from node comma.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The x current element.

*strElementName*

Type: [System.String](#)

Name of the string element.

#### Return Value

Type: [Nullable\(Double\)](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetDoubleFromNodePoint Method

Gets the double from node point.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The x current element.

*strElementName*

Type: [System.String](#)

Name of the string element.

#### Return Value

Type: [Nullable\(Double\)](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetEnumFromNode(*T*) Method

Gets the enum from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static T GetEnumFromNode<T>(
    XElement xCurrentElement,
    string strElementName,
    T tDefault
)
```

#### Parameters

*xCurrentElement*

Type: [System.Xml.Linq.XElement](#)

The x current element.

*strElementName*

Type: [System.String](#)

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](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetFileInfoFromNode Method

Gets the file information from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static FileInfo GetFileInfoFromNode(
    XElement xCurrentElement,
    string strElementName,
    FileInfo fiDefault
)
```

### Parameters

*xCurrentElement*

Type: [System.Xml.Linq.XElement](#)

The x current element.

*strElementName*

Type: [System.String](#)

Name of the string element.

*fiDefault*

Type: [System.IO.FileInfo](#)

The fi default.

### Return Value

Type: [FileInfo](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type  [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetGuidIdFromNode Method

Gets the unique identifier from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static Nullable<Guid> GetGuidIdFromNode (
    XElement xCurrentElement,
    string strElementName
)
```

#### Parameters

*xCurrentElement*

Type: [System.Xml.Linq.XElement](#)

The x current element.

*strElementName*

Type: [System.String](#)

Name of the string element.

#### Return Value

Type: [Nullable\(Guid\)](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetInt32Attribute Method

Gets the int32 attribute.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The e parent.

*strName*

Type: [System.String](#)

Name of the string.

### Return Value

Type: [Nullable\(Int32\)](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetInt32FromNode Method

Gets the int32 from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The x current element.

*strElementName*

Type: [System.String](#)

Name of the string element.

#### Return Value

Type: [Nullable\(Int32\)](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetInt64Attribute Method

Gets the int64 attribute.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The e parent.

*strName*

Type: [System.String](#)

Name of the string.

### Return Value

Type: [Nullable\(Int64\)](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetLongFromNode Method

Gets the long from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The be current element.

*strElementName*

Type: [System.String](#)

Name of the STR element.

#### Return Value

Type: [Nullable\(Int64\)](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetProperty(*T*) Method

Gets the property.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static T GetProperty<T>(
    XElement eParent,
    string strElementName,
    T tDefault
)
```

### Parameters

*eParent*

Type: [System.Xml.Linq.XElement](#)

The e parent.

*strElementName*

Type: [System.String](#)

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](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### Exceptions

Exception	Condition
<a href="#">NotSupportedException</a>	

### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)



## XElementExtension.GetSingleAttribute Method

Gets the single attribute.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The e parent.

*strName*

Type: [System.String](#)

Name of the string.

### Return Value

Type: [Nullable\(Single\)](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetSingleFromNode Method

Gets the single from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The x current element.

*strElementName*

Type: [System.String](#)

Name of the string element.

### Return Value

Type: [Nullable\(Single\)](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetSingleFromNodeComma Method

Gets the single from node comma.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The x current element.

*strElementName*

Type: [System.String](#)

Name of the string element.

#### Return Value

Type: [Nullable\(Single\)](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetSingleFromNodePoint Method

Gets the single from node point.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The x current element.

*strElementName*

Type: [System.String](#)

Name of the string element.

#### Return Value

Type: [Nullable\(Single\)](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetStringAttribute Method

Gets the string attribute.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The e parent.

*strName*

Type: [System.String](#)

Name of the string.

### Return Value

Type: [String](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetStringFromCData Method

Liefert den ersten CData Eintrag des Knotens wenn einer vorhanden ist.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

*strElementName*

Type: [System.String](#)

### Return Value

Type: [String](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type  [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetStringFromNode Method

### Overload List

	Name	Description
 <b>S</b>	<a href="#">GetStringFromNode(XElement, String)</a>	Gets the string from node.
 <b>S</b>	<a href="#">GetStringFromNode(XElement, String, String)</a>	Gets the string from node.

### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetStringFromNode Method (XElement, String)

Gets the string from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static string GetStringFromNode(
    XElement xCurrentElement,
    string strElementName
)
```

### Parameters

*xCurrentElement*

Type: [System.Xml.Linq.XElement](#)

The be current element.

*strElementName*

Type: [System.String](#)

Name of the STR element.

### Return Value

Type: [String](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type  [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[XElementExtension Class](#)

[GetStringFromNode Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetStringFromNode Method (XElement, String, String)

Gets the string from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static string GetStringFromNode (
    XElement xCurrentElement,
    string strNamespace,
    string strElementName
)
```

#### Parameters

*xCurrentElement*

Type: [System.Xml.Linq.XElement](#)

The be current element.

*strNamespace*

Type: [System.String](#)

The STR namespace.

*strElementName*

Type: [System.String](#)

Name of the STR element.

#### Return Value

Type: [String](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type  [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[XElementExtension Class](#)

[GetStringFromNode Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetUInt32Attribute Method

Gets the u int32 attribute.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The e parent.

*strName*

Type: [System.String](#)

Name of the string.

### Return Value

Type: [Nullable\(UInt32\)](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.GetUInt32FromNode Method

Gets the u int32 from node.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**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](#)

The x current element.

*strElementName*

Type: [System.String](#)

Name of the string element.

#### Return Value

Type: [Nullable\(UInt32\)](#)

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.Get XElement Method

Gets the x element.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static XElement Get XElement(
    string strPropertyName,
    Object o
)
```

#### Parameters

*strPropertyName*

Type: [System.String](#)

Name of the string property.

*o*

Type: [System.Object](#)

The o.

#### Return Value

Type:  [XElement](#)

### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.SaveDefault Method

Speichert einen XML Baum mit den Standardoptionen.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static void SaveDefault(
    XElement element,
    string strOutputFilename
)
```

### Parameters

*element*

Type: [System.Xml.Linq.XElement](#)

*strOutputFilename*

Type: [System.String](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## XElementExtension.ToString Method

To the default string.

**Namespace:** [SIGENCEScenarioTool.Extensions](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static string ToString()  
    this XElement element  
)
```

### Parameters

*element*

Type: [System.Xml.Linq.XElement](#)

The element.

### Return Value

Type: [String](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type  [XElement](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

## SIGENCEScenarioTool.Interfaces Namespace

### Interfaces

	<b>Interface</b>	<b>Description</b>
	<a href="#">IXmlExport</a>	

## IXmlExport Interface

**Namespace:** [SIGENCEScenarioTool.Interfaces](#)

**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
	<a href="#">ToXml</a>	To the XML.

### See Also

[SIGENCEScenarioTool.Interfaces Namespace](#)

## IXmlExport.IXmlExport Methods

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

### Methods

	Name	Description
	<a href="#">ToXml</a>	To the XML.

### See Also

[IXmlExport Interface](#)

[SIGENCEScenarioTool.Interfaces Namespace](#)

## IXmlExport.Xml Method

To the XML.

**Namespace:** [SIGENCEScenarioTool.Interfaces](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
XElement ToXml()
```

*Return Value*

Type:  [XElement](#)

### See Also

[IXmlExport Interface](#)

[SIGENCEScenarioTool.Interfaces Namespace](#)

## SIGENCEScenarioTool.Models Namespace

### Classes

Class	Description
 <a href="#">AbstractModelBase</a>	
 <a href="#">GeoLocalizationResult</a>	Represent The Geo Localization Result Of A RFDevice.
 <a href="#">GeoLocalizationResultList</a>	
 <a href="#">RFDevice</a>	Represent A Device Based On A Radio Frequency.
 <a href="#">RFDeviceExtensions</a>	Represent A Device Based On A Radio Frequency.
 <a href="#">RFDeviceList</a>	
 <a href="#">RFDeviceTooltips</a>	The tooltips for our properties to display in the HMI.

### Enumerations

	Enumeration	Description
 <a href="#">AntennaType</a>		
 <a href="#">DeviceSource</a>		
 <a href="#">DeviceType</a>		
 <a href="#">Servity</a>		

## AbstractModelBase Class

### Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Models.AbstractModelBase

[SIGENCEScenarioTool.Models.GeoLocalizationResult](#)

[SIGENCEScenarioTool.Models.RFDevice](#)

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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
	<a href="#">AbstractModelBase</a>	Initializes a new instance of the <b>AbstractModelBase</b> class

### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">FirePropertyChanged</a>	Fires the property changed.
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

### Events

	Name	Description
	<a href="#">PropertyChanged</a>	

### See Also

[SIGENCEScenarioTool.Models Namespace](#)

[System.ComponentModel.INotifyPropertyChanged](#)

## AbstractModelBase Constructor

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

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
protected AbstractModelBase()
```

### See Also

[AbstractModelBase Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## AbstractModelBase.AbstractModelBase Methods

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

### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">FirePropertyChanged</a>	Fires the property changed.
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

### See Also

[AbstractModelBase Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## AbstractModelBase.FirePropertyChanged Method

Fires the property changed.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

Name of the string property.

### See Also

[AbstractModelBase Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## AbstractModelBase.AbstractModelBase Events

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

### Events

	Name	Description
	<a href="#">PropertyChanged</a>	

### See Also

[AbstractModelBase Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## AbstractModelBase.PropertyChanged Event

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public event PropertyChangedEventHandler PropertyChanged
```

*Value*

Type: [System.ComponentModel.PropertyChangedEventHandler](#)

*Implements*

[INotifyPropertyChanged.PropertyChanged](#)

### See Also

[AbstractModelBase Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## AntennaType Enumeration

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

C#

```
public enum AntennaType
```

### Members

	Member name	Value	Description
	<b>OmniDirectional</b>	0	
	<b>OmniLOG30800</b>	1	
	<b>HyperLOG60200</b>	2	
	<b>SimradArgusRadar</b>	3	
	<b>Unknown</b>	255	

### See Also

[SIGENCEScenarioTool.Models Namespace](#)

## DeviceSource Enumeration

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

C#

```
public enum DeviceSource
```

### Members

Member name	Value	Description
<b>Unknown</b>	0	The source of the device is unknown
<b>User</b>	1	The device was created by the user
<b>Automatic</b>	2	The device was automatically generated
<b>DataImport</b>	3	The device comes from a data import
<b>SimulationResult</b>	4	The device comes from a simulation result

### See Also

[SIGENCEScenarioTool.Models Namespace](#)

## DeviceType Enumeration

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public enum DeviceType
```

### Members

	<b>Member name</b>	<b>Value</b>	<b>Description</b>
	<b>Unknown</b>	0	Unknown DeviceType
	<b>Receiver</b>	1	Receiver
	<b>Transmitter</b>	2	Transmitter
	<b>Reference</b>	3	Reference Transmitter

### See Also

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult Class

Represent The Geo Localization Result Of A RFDevice.

### Inheritance Hierarchy

[System.Object](#)

[SIGENCEScenarioTool.Models.AbstractModelBase](#)

SIGENCEScenarioTool.Models.GeoLocalizationResult

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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
	<a href="#">GeoLocalizationResult</a>	Initializes a new instance of the <b>GeoLocalizationResult</b> class

### Properties

	Name	Description
	<a href="#">Altitude</a>	The Elevation Of The Localized RF Device Above The Sea Level (Meter).
	<a href="#">Id</a>	The Id Of The Localized RFDevice.
	<a href="#">Latitude</a>	The Latitude Of The Localized RF Device (WGS84).
	<a href="#">LocalizationTime</a>	The Localization Time.
	<a href="#">Longitude</a>	The Longitude Of The Localized RF Device (WGS84).
	<a href="#">PrimaryKey</a>	The Unique PrimarKey For This Result.

### Methods

	Name	Description
	<a href="#">Clone</a>	
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(GeoLocalizationResult)</a>	
	<a href="#">FromXml</a>	

	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToXml</a>	

## Events

	<b>Name</b>	<b>Description</b>
	<a href="#">PropertyChanged</a>	(Inherited from <a href="#">AbstractModelBase</a> .)

## Fields

	<b>Name</b>	<b>Description</b>
	<a href="#">ALTITUDE</a>	The PropertyName As ReadOnly String For Altitude.
	<a href="#">DEFAULT_ALTITUDE</a>	The DefaultValue For Altitude.
	<a href="#">DEFAULT_ID</a>	The DefaultValue For Id.
	<a href="#">DEFAULT_LATITUDE</a>	The DefaultValue For Latitude.
	<a href="#">DEFAULT_LOCALIZATIONTIME</a>	The DefaultValue For LocalizationTime.
	<a href="#">DEFAULT_LONGITUDE</a>	The DefaultValue For Longitude.
	<a href="#">DEFAULT_PRIMARYKEY</a>	The DefaultValue For PrimaryKey.
	<a href="#">ID</a>	The PropertyName As ReadOnly String For Id.
	<a href="#">LATITUDE</a>	The PropertyName As ReadOnly String For Latitude.
	<a href="#">LOCALIZATIONTIME</a>	The PropertyName As ReadOnly String For LocalizationTime.
	<a href="#">LONGITUDE</a>	The PropertyName As ReadOnly String For Longitude.
	<a href="#">PRIMARYKEY</a>	The PropertyName As ReadOnly String For PrimaryKey.

## See Also

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult Constructor

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

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public GeoLocalizationResult()
```

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.GeoLocalizationResult Properties

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

### Properties

	Name	Description
	<a href="#">Altitude</a>	The Elevation Of The Localized RF Device Above The Sea Level (Meter).
	<a href="#">Id</a>	The Id Of The Localized RFDevice.
	<a href="#">Latitude</a>	The Latitude Of The Localized RF Device (WGS84).
	<a href="#">LocalizationTime</a>	The Localization Time.
	<a href="#">Longitude</a>	The Longitude Of The Localized RF Device (WGS84).
	<a href="#">PrimaryKey</a>	The Unique PrimarKey For This Result.

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.Altitude Property

The Elevation Of The Localized RF Device Above The Sea Level (Meter).

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public uint Altitude { get; set; }
```

*Property Value*

Type: [UInt32](#)

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.Id Property

The Id Of The Localized RFDevice.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public int Id { get; set; }
```

*Property Value*

Type: [Int32](#)

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.Latitude Property

The Latitude Of The Localized RF Device (WGS84).

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public double Latitude { get; set; }
```

*Property Value*

Type: [Double](#)

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.LocalizationTime Property

The Localization Time.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public double LocalizationTime { get; set; }
```

*Property Value*

Type: [Double](#)

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.Longitude Property

The Longitude Of The Localized RF Device (WGS84).

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public double Longitude { get; set; }
```

*Property Value*

Type: [Double](#)

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.PrimaryKey Property

The Unique PrimaryKey For This Result.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public Guid PrimaryKey { get; set; }
```

*Property Value*

Type: [Guid](#)

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.GeoLocalizationResult Methods

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

### Methods

	Name	Description
	<a href="#">Clone</a>	
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(GeoLocalizationResult)</a>	
	<a href="#">FromXml</a>	
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToXml</a>	

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.Clone Method

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public GeoLocalizationResult Clone()
```

*Return Value*

Type: [GeoLocalizationResult](#)

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.Equals Method

### Overload List

	<b>Name</b>	<b>Description</b>
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(GeoLocalizationResult)</a>	

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.Equals Method (GeoLocalizationResult)

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### Return Value

Type: [Boolean](#)

### Implements

[IEquatable\(T\).Equals\(T\)](#)

### See Also

[GeoLocalizationResult Class](#)

[Equals Overload](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.FromXml Method

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### Return Value

Type: [GeoLocalizationResult](#)

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.ToXml Method

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public XElement ToXml()
```

*Return Value*

Type:  [XElement](#)

*Implements*

[IXmlExport.ToXml\(\)](#)

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.GeoLocalizationResult Events

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

### Events

	Name	Description
	<a href="#">PropertyChanged</a>	(Inherited from <a href="#">AbstractModelBase</a> .)

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.GeoLocalizationResult Fields

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

### Fields

	<b>Name</b>	<b>Description</b>
◆ S	<a href="#">ALTITUDE</a>	The PropertyName As ReadOnly String For Altitude.
◆ S	<a href="#">DEFAULT_ALTITUDE</a>	The DefaultValue For Altitude.
◆ S	<a href="#">DEFAULT_ID</a>	The DefaultValue For Id.
◆ S	<a href="#">DEFAULT_LATITUDE</a>	The DefaultValue For Latitude.
◆ S	<a href="#">DEFAULT_LOCALIZATIONTIME</a>	The DefaultValue For LocalizationTime.
◆ S	<a href="#">DEFAULT_LONGITUDE</a>	The DefaultValue For Longitude.
◆ S	<a href="#">DEFAULT_PRIMARYKEY</a>	The DefaultValue For PrimaryKey.
◆ S	<a href="#">ID</a>	The PropertyName As ReadOnly String For Id.
◆ S	<a href="#">LATITUDE</a>	The PropertyName As ReadOnly String For Latitude.
◆ S	<a href="#">LOCALIZATIONTIME</a>	The PropertyName As ReadOnly String For LocalizationTime.
◆ S	<a href="#">LONGITUDE</a>	The PropertyName As ReadOnly String For Longitude.
◆ S	<a href="#">PRIMARYKEY</a>	The PropertyName As ReadOnly String For PrimaryKey.

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.ALTITUDE Field

The PropertyName As ReadOnly String For Altitude.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public const string ALTITUDE = "Altitude"
```

### Field Value

Type: [String](#)

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.DEFAULT\_ALTITUDE Field

The DefaultValue For Altitude.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.DEFAULT\_ID Field

The DefaultValue For Id.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.DEFAULT\_LATITUDE Field

The DefaultValue For Latitude.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.DEFAULT\_LOCALIZATIONTIME Field

The DefaultValue For LocalizationTime.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.DEFAULT\_LONGITUDE Field

The DefaultValue For Longitude.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.DEFAULT\_PRIMARYKEY Field

The DefaultValue For PrimaryKey.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.ID Field

The PropertyName As ReadOnly String For Id.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public const string ID = "Id"
```

### Field Value

Type: [String](#)

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.LATITUDE Field

The PropertyName As ReadOnly String For Latitude.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public const string LATITUDE = "Latitude"
```

*Field Value*

Type: [String](#)

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.LOCALIZATIONTIME Field

The PropertyName As ReadOnly String For LocalizationTime.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public const string LOCALIZATIONTIME = "LocalizationTime"
```

*Field Value*

Type: [String](#)

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.LONGITUDE Field

The PropertyName As ReadOnly String For Longitude.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public const string LONGITUDE = "Longitude"
```

### Field Value

Type: [String](#)

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResult.PRIMARYKEY Field

The PropertyName As ReadOnly String For PrimaryKey.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public const string PRIMARYKEY = "PrimaryKey"
```

### Field Value

Type: [String](#)

### See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResultList Class

Inheritance Hierarchy

[System.Object](#)

[System.Collections.Generic.List\(GeoLocalizationResult\)](#)

SIGENCEScenarioTool.Models.GeoLocalizationResultList

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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
	<a href="#">GeoLocalizationResultList()</a>	Initializes a new instance of the <b>GeoLocalizationResultList</b> class.
	<a href="#">GeoLocalizationResultList(Int32)</a>	Initializes a new instance of the <b>GeoLocalizationResultList</b> class.
	<a href="#">GeoLocalizationResultList(IEnumerable(GeoLocalizationResult))</a>	Initializes a new instance of the <b>GeoLocalizationResultList</b> class.

### Properties

	Name	Description
	<a href="#">Capacity</a>	Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
	<a href="#">Count</a>	Gets the number of elements contained in the <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
	<a href="#">Item</a>	Gets or sets the element at the specified index. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)

### Methods

	Name	Description
	<a href="#">Add</a>	Adds an object to the end of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
	<a href="#">AddRange</a>	Adds the elements of the specified collection to the end of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)

 <a href="#">AsReadOnly</a>	Returns a read-only <a href="#">IList(T)</a> wrapper for the current collection. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">BinarySearch(T)</a>	Searches the entire sorted <a href="#">List(T)</a> for an element using the default comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">BinarySearch(T, IComparer(T))</a>	Searches the entire sorted <a href="#">List(T)</a> for an element using the specified comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">BinarySearch(Int32, Int32, T, IComparer(T))</a>	Searches a range of elements in the sorted <a href="#">List(T)</a> for an element using the specified comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">Clear</a>	Removes all elements from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">Contains</a>	Determines whether an element is in the <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">ConvertAll(TOutput)</a>	Converts the elements in the current <a href="#">List(T)</a> to another type, and returns a list containing the converted elements. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">CopyTo(T[])</a>	Copies the entire <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the beginning of the target array. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">CopyTo(T[], Int32)</a>	Copies the entire <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">CopyTo(Int32, T[], Int32, Int32)</a>	Copies a range of elements from the <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
 <a href="#">Exists</a>	Determines whether the <a href="#">List(T)</a> contains elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">Find</a>	Searches for an element that matches the conditions defined by the specified predicate, and returns the first occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">FindAll</a>	Retrieves all the elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">FindIndex(Predicate(T))</a>	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 <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)

 <a href="#">FindIndex(Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that extends from the specified index to the last element. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">FindIndex(Int32, Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that starts at the specified index and contains the specified number of elements. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">FindLast</a>	Searches for an element that matches the conditions defined by the specified predicate, and returns the last occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">FindLastIndex(Predicate(T))</a>	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 <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">FindLastIndex(Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that extends from the first element to the specified index. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">FindLastIndex(Int32, Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that contains the specified number of elements and ends at the specified index. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">ForEach</a>	Performs the specified action on each element of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">GetEnumerator</a>	Returns an enumerator that iterates through the <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
 <a href="#">GetRange</a>	Creates a shallow copy of a range of elements in the source <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
 <a href="#">IndexOf(T)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">IndexOf(T, Int32)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the <a href="#">List(T)</a> that extends from the specified index to the last element. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)

 <a href="#">IndexOf(T, Int32, Int32)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the <a href="#">List(T)</a> that starts at the specified index and contains the specified number of elements. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">Insert</a>	Inserts an element into the <a href="#">List(T)</a> at the specified index. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">InsertRange</a>	Inserts the elements of a collection into the <a href="#">List(T)</a> at the specified index. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">LastIndexOf(T)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">LastIndexOf(T, Int32)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the <a href="#">List(T)</a> that extends from the first element to the specified index. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">LastIndexOf(T, Int32, Int32)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the <a href="#">List(T)</a> that contains the specified number of elements and ends at the specified index. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">Remove</a>	Removes the first occurrence of a specific object from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">RemoveAll</a>	Removes all the elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">RemoveAt</a>	Removes the element at the specified index of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">RemoveRange</a>	Removes a range of elements from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">Reverse()</a>	Reverses the order of the elements in the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">Reverse(Int32, Int32)</a>	Reverses the order of the elements in the specified range. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">Sort()</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the default comparer. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">Sort(IComparer(T))</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the specified comparer. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">Sort(Comparison(T))</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the specified <a href="#">Comparison(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">Sort(Int32, Int32, IComparer(T))</a>	Sorts the elements in a range of elements in <a href="#">List(T)</a> using the specified comparer. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">ToArray</a>	Copies the elements of the <a href="#">List(T)</a> to a new array. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)

 <a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
 <a href="#">TrimExcess</a>	Sets the capacity to the actual number of elements in the <a href="#">List(T)</a> , if that number is less than a threshold value. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">TrueForAll</a>	Determines whether every element in the <a href="#">List(T)</a> matches the conditions defined by the specified predicate. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)

## Extension Methods

Name	Description
 <a href="#">SaveAsCsv(GeoLocalizationResult)</a>	Saves the list as CSV. (Defined by <a href="#">ListExtension</a> .)
 <a href="#">SaveAsXml(GeoLocalizationResult)</a>	Saves the list as XML. (Defined by <a href="#">ListExtension</a> .)

## See Also

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResultList Constructor

### Overload List

Name	Description
 <a href="#">GeoLocalizationResultList()</a>	Initializes a new instance of the <a href="#">GeoLocalizationResultList</a> class.
 <a href="#">GeoLocalizationResultList(Int32)</a>	Initializes a new instance of the <a href="#">GeoLocalizationResultList</a> class.
 <a href="#">GeoLocalizationResultList(IEnumerable(GeoLocalizationResult))</a>	Initializes a new instance of the <a href="#">GeoLocalizationResultList</a> class.

### See Also

[GeoLocalizationResultList Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResultList Constructor

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

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public GeoLocalizationResultList()
```

### See Also

[GeoLocalizationResultList Class](#)

[GeoLocalizationResultList Overload](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResultList Constructor (Int32)

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

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public GeoLocalizationResultList(  
    int iInitialSize  
)
```

### Parameters

*iInitialSize*

Type: [System.Int32](#)

Initial size of the i.

### See Also

[GeoLocalizationResultList Class](#)

[GeoLocalizationResultList Overload](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResultList Constructor ([IEnumerable\(GeoLocalizationResult\)](#))

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

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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\(GeoLocalizationResult\)](#)

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

### See Also

[GeoLocalizationResultList Class](#)

[GeoLocalizationResultList Overload](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResultList.GeoLocalizationResultList Properties

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

### Properties

	Name	Description
	<a href="#">Capacity</a>	Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
	<a href="#">Count</a>	Gets the number of elements contained in the <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
	<a href="#">Item</a>	Gets or sets the element at the specified index. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)

### See Also

[GeoLocalizationResultList Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## GeoLocalizationResultList.GeoLocalizationResultList Methods

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

### Methods

Name	Description
<a href="#"> Add</a>	Adds an object to the end of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
<a href="#"> AddRange</a>	Adds the elements of the specified collection to the end of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
<a href="#"> AsReadOnly</a>	Returns a read-only <a href="#">IList(T)</a> wrapper for the current collection. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
<a href="#"> BinarySearch(T)</a>	Searches the entire sorted <a href="#">List(T)</a> for an element using the default comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
<a href="#"> BinarySearch(T, IComparer(T))</a>	Searches the entire sorted <a href="#">List(T)</a> for an element using the specified comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
<a href="#"> BinarySearch(Int32, Int32, T, IComparer(T))</a>	Searches a range of elements in the sorted <a href="#">List(T)</a> for an element using the specified comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
<a href="#"> Clear</a>	Removes all elements from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
<a href="#"> Contains</a>	Determines whether an element is in the <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
<a href="#"> ConvertAll(TOutput)</a>	Converts the elements in the current <a href="#">List(T)</a> to another type, and returns a list containing the converted elements. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
<a href="#"> CopyTo(T[])</a>	Copies the entire <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the beginning of the target array. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
<a href="#"> CopyTo(T[], Int32)</a>	Copies the entire <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
<a href="#"> CopyTo(Int32, T[], Int32, Int32)</a>	Copies a range of elements from the <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
<a href="#"> Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
<a href="#"> Exists</a>	Determines whether the <a href="#">List(T)</a> contains elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)

 <a href="#">Find</a>	Searches for an element that matches the conditions defined by the specified predicate, and returns the first occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">FindAll</a>	Retrieves all the elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">FindIndex(Predicate(T))</a>	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 <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">FindIndex(Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that extends from the specified index to the last element. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">FindIndex(Int32, Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that starts at the specified index and contains the specified number of elements. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">FindLast</a>	Searches for an element that matches the conditions defined by the specified predicate, and returns the last occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">FindLastIndex(Predicate(T))</a>	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 <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">FindLastIndex(Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that extends from the first element to the specified index. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">FindLastIndex(Int32, Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that contains the specified number of elements and ends at the specified index. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">ForEach</a>	Performs the specified action on each element of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">GetEnumerator</a>	Returns an enumerator that iterates through the <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
 <a href="#">GetRange</a>	Creates a shallow copy of a range of elements in the source <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)

 <a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
 <a href="#">IndexOf(T)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">IndexOf(T, Int32)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the <a href="#">List(T)</a> that extends from the specified index to the last element. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">IndexOf(T, Int32, Int32)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the <a href="#">List(T)</a> that starts at the specified index and contains the specified number of elements. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">Insert</a>	Inserts an element into the <a href="#">List(T)</a> at the specified index. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">InsertRange</a>	Inserts the elements of a collection into the <a href="#">List(T)</a> at the specified index. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">LastIndexOf(T)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">LastIndexOf(T, Int32)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the <a href="#">List(T)</a> that extends from the first element to the specified index. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">LastIndexOf(T, Int32, Int32)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the <a href="#">List(T)</a> that contains the specified number of elements and ends at the specified index. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">Remove</a>	Removes the first occurrence of a specific object from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">RemoveAll</a>	Removes all the elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">RemoveAt</a>	Removes the element at the specified index of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">RemoveRange</a>	Removes a range of elements from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">Reverse()</a>	Reverses the order of the elements in the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">Reverse(Int32, Int32)</a>	Reverses the order of the elements in the specified range. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">Sort()</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the default comparer. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)

 <a href="#">Sort(IComparer(T))</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the specified comparer. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">Sort(Comparison(T))</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the specified <a href="#">Comparison(T)</a> . (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">Sort(Int32, Int32, IComparer(T))</a>	Sorts the elements in a range of elements in <a href="#">List(T)</a> using the specified comparer. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">ToArray</a>	Copies the elements of the <a href="#">List(T)</a> to a new array. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
 <a href="#">TrimExcess</a>	Sets the capacity to the actual number of elements in the <a href="#">List(T)</a> , if that number is less than a threshold value. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)
 <a href="#">TrueForAll</a>	Determines whether every element in the <a href="#">List(T)</a> matches the conditions defined by the specified predicate. (Inherited from <a href="#">List(GeoLocalizationResult)</a> .)

## Extension Methods

	Name	Description
 <a href="#">SaveAsCsv(GeoLocalizationResult)</a>	Saves the list as CSV. (Defined by <a href="#">ListExtension</a> .)	
 <a href="#">SaveAsXml(GeoLocalizationResult)</a>	Saves the list as XML. (Defined by <a href="#">ListExtension</a> .)	

## See Also

[GeoLocalizationResultList Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice Class

Represent A Device Based On A Radio Frequency.

### Inheritance Hierarchy

[System.Object](#)

[SIGENCEScenarioTool.Models.AbstractModelBase](#)

SIGENCEScenarioTool.Models.RFDevice

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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
	<a href="#">RFDevice</a>	Initializes a new instance of the <b>RFDevice</b> class

### Properties

	Name	Description
	<a href="#">Altitude</a>	The Elevation Of The RF Device Above The Sea Level (Meter).
	<a href="#">AntennaType</a>	AntennaType Defines The Antenna Type Used For Transmitter And Receiver Respectively. Note: Currently, Only Omnidirectional Antenna Type Is Available / Supported.
	<a href="#">Bandwidth_Hz</a>	The Bandwith Of The Transmitter.
	<a href="#">CenterFrequency_Hz</a>	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.
	<a href="#">DeviceSource</a>	The Source Of This RF Device.
	<a href="#">Gain_dB</a>	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.
	<a href="#">Id</a>	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.
	<a href="#">Latitude</a>	The Latitude Of The RF Device (WGS84).
	<a href="#">Longitude</a>	The Longitude Of The RF Device (WGS84).
	<a href="#">Name</a>	A Short Describing Display Name For The RF Device.
	<a href="#">Pitch</a>	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.
	<a href="#">PrimaryKey</a>	The Unique PrimarKey For This RF Device.
	<a href="#">Remark</a>	A Comment Or Remark For The RF Device.
	<a href="#">Roll</a>	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.
	<a href="#">RxTxType</a>	For All Receivers (i.e. ID's < 0) This Parameter Defines The Radio Being Used.
	<a href="#">SignalToNoiseRatio_db</a>	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.
	<a href="#">StartTime</a>	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.
	<a href="#">XPos</a>	XPos,YPos,ZPos Define The Transmitter / Receiver Positions In A Local Coordinate System With The Transmitter (ID=0) Being The Center Position.
	<a href="#">Yaw</a>	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.
	<a href="#">YPos</a>	XPos,YPos,ZPos Define The Transmitter / Receiver Positions In A Local Coordinate System With The Transmitter (ID=0) Being The Center Position.
	<a href="#">ZPos</a>	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
	<a href="#">Clone</a>	Clones this instance.

 <a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
 <a href="#">Equals(RFDevice)</a>	Gibt an, ob das aktuelle Objekt gleich einem anderen Objekt des gleichen Typs ist.
 <a href="#">FromXml</a>	Froms the XML.
 <a href="#">S</a>	
 <a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
 <a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
 <a href="#">ToString</a>	Returns a <a href="#">String</a> that represents this instance. (Overrides <a href="#">Object.ToString()</a> .)
 <a href="#">ToXml</a>	To the XML.
 <a href="#">Validate</a>	

## Events

	Name	Description
 <a href="#">PropertyChanged</a>	(Inherited from <a href="#">AbstractModelBase</a> .)	

## Fields

	Name	Description
 <a href="#">ALTITUDE</a>	The PropertyName As ReadOnly String For Altitude.	
 <a href="#">S</a>		
 <a href="#">ANTENNATYPE</a>	The PropertyName As ReadOnly String For AntennaType.	
 <a href="#">S</a>		
 <a href="#">BANDWIDTH_HZ</a>	The PropertyName As ReadOnly String For Bandwidth_Hz.	
 <a href="#">S</a>		
 <a href="#">CENTERFREQUENCY_HZ</a>	The PropertyName As ReadOnly String For CenterFrequency_Hz.	
 <a href="#">S</a>		
 <a href="#">DEFAULT_ALTITUDE</a>	The DefaultValue For Altitude.	
 <a href="#">S</a>		
 <a href="#">DEFAULT_ANTENNATYPE</a>	The DefaultValue For AntennaType.	
 <a href="#">S</a>		
 <a href="#">DEFAULT_BANDWIDTH_HZ</a>	The DefaultValue For Bandwidth_Hz.	
 <a href="#">S</a>		
 <a href="#">DEFAULT_CENTERFREQUENCY_HZ</a>	The DefaultValue For CenterFrequency_Hz.	
 <a href="#">S</a>		
 <a href="#">DEFAULT_DEVICESOURCE</a>	The DefaultValue For DeviceSource.	
 <a href="#">S</a>		
 <a href="#">DEFAULT_GAIN_DB</a>	The DefaultValue For Gain_dB.	
 <a href="#">S</a>		

 <a href="#"><u>DEFAULT_ID</u></a>	The DefaultValue For Id.
 <a href="#"><u>DEFAULT_LATITUDE</u></a>	The DefaultValue For Latitude.
 <a href="#"><u>DEFAULT_LONGITUDE</u></a>	The DefaultValue For Longitude.
 <a href="#"><u>DEFAULT_NAME</u></a>	The DefaultValue For Name.
 <a href="#"><u>DEFAULT_PITCH</u></a>	The DefaultValue For Pitch.
 <a href="#"><u>DEFAULT_PRIMARYKEY</u></a>	The DefaultValue For PrimaryKey.
 <a href="#"><u>DEFAULT_REMARK</u></a>	The DefaultValue For Remark.
 <a href="#"><u>DEFAULT_ROLL</u></a>	The DefaultValue For Roll.
 <a href="#"><u>DEFAULT_RXTXYTYPE</u></a>	The DefaultValue For RxTxType.
 <a href="#"><u>DEFAULT_SIGNALTONOISERATIO_DB</u></a>	The DefaultValue For SignalToNoiseRatio_db.
 <a href="#"><u>DEFAULT_STARTTIME</u></a>	The DefaultValue For StartTime.
 <a href="#"><u>DEFAULT_XPOS</u></a>	The DefaultValue For XPos.
 <a href="#"><u>DEFAULT_YAW</u></a>	The DefaultValue For Yaw.
 <a href="#"><u>DEFAULT_YPOS</u></a>	The DefaultValue For YPos.
 <a href="#"><u>DEFAULT_ZPOS</u></a>	The DefaultValue For ZPos.
 <a href="#"><u>DEVICESOURCE</u></a>	The PropertyName As ReadOnly String For DeviceSource.
 <a href="#"><u>GAIN_DB</u></a>	The PropertyName As ReadOnly String For Gain_db.
 <a href="#"><u>ID</u></a>	The PropertyName As ReadOnly String For Id.
 <a href="#"><u>LATITUDE</u></a>	The PropertyName As ReadOnly String For Latitude.
 <a href="#"><u>LONGITUDE</u></a>	The PropertyName As ReadOnly String For Longitude.

 	<a href="#"><u>NAME</u></a>	The PropertyName As ReadOnly String For Name.
 	<a href="#"><u>PITCH</u></a>	The PropertyName As ReadOnly String For Pitch.
 	<a href="#"><u>PRIMARYKEY</u></a>	The PropertyName As ReadOnly String For PrimaryKey.
 	<a href="#"><u>REMARK</u></a>	The PropertyName As ReadOnly String For Remark.
 	<a href="#"><u>ROLL</u></a>	The PropertyName As ReadOnly String For Roll.
 	<a href="#"><u>RXTXTYPE</u></a>	The PropertyName As ReadOnly String For RxTxType.
 	<a href="#"><u>SIGNALTONOISERATIO_DB</u></a>	The PropertyName As ReadOnly String For SignalToNoiseRatio_dB.
 	<a href="#"><u>STARTTIME</u></a>	The PropertyName As ReadOnly String For StartTime.
 	<a href="#"><u>XPOS</u></a>	The PropertyName As ReadOnly String For XPos.
 	<a href="#"><u>YAW</u></a>	The PropertyName As ReadOnly String For Yaw.
 	<a href="#"><u>YPOS</u></a>	The PropertyName As ReadOnly String For YPos.
 	<a href="#"><u>ZPOS</u></a>	The PropertyName As ReadOnly String For ZPos.

## Extension Methods

	Name	Description
 	<a href="#"><u>WithAltitude</u></a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
 	<a href="#"><u>WithAntennaType</u></a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
 	<a href="#"><u>WithBandwidth_Hz</u></a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
 	<a href="#"><u>WithCenterFrequency_Hz</u></a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
 	<a href="#"><u>WithDeviceSource</u></a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
 	<a href="#"><u>WithGain_dB</u></a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
 	<a href="#"><u>WithId</u></a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
 	<a href="#"><u>WithLatitude</u></a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
 	<a href="#"><u>WithLongitude</u></a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#"><u>WithName</u></a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#"><u>WithPitch</u></a>	(Defined by <a href="#">RFDeviceExtensions</a> .)

	<a href="#">WithPrimaryKey</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#">WithRemark</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#">WithRoll</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#">WithRxTxType</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#">WithSignalToNoiseRatio_dB</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#">WithStartTime</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#">WithXPos</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#">WithYaw</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#">WithYPos</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#">WithZPos</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)

## See Also

[SIGENCEScenarioTool.Models Namespace](#)[\[!:<System.IEquatable<SIGENCEScenarioTool.Models.RFDevice>\]](#)[System.ComponentModel.INotifyPropertyChanged](#)[System.ICloneable](#)[SIGENCEScenarioTool.Interfaces.IXmlExport](#)

## RFDevice Constructor

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

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public RFDevice()
```

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.RFDevice Properties

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

### Properties

	<b>Name</b>	<b>Description</b>
	<a href="#">Altitude</a>	The Elevation Of The RF Device Above The Sea Level (Meter).
	<a href="#">AntennaType</a>	AntennaType Defines The Antenna Type Used For Transmitter And Receiver Respectively. Note: Currently, Only Omnidirectional Antenna Type Is Available / Supported.
	<a href="#">Bandwidth_Hz</a>	The Bandwith Of The Transmitter.
	<a href="#">CenterFrequency_Hz</a>	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.
	<a href="#">DeviceSource</a>	The Source Of This RF Device.
	<a href="#">Gain_dB</a>	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.
	<a href="#">Id</a>	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.
	<a href="#">Latitude</a>	The Latitude Of The RF Device (WGS84).
	<a href="#">Longitude</a>	The Longitude Of The RF Device (WGS84).
	<a href="#">Name</a>	A Short Describing Display Name For The RF Device.
	<a href="#">Pitch</a>	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.
	<a href="#">PrimaryKey</a>	The Unique PrimarKey For This RF Device.
	<a href="#">Remark</a>	A Comment Or Remark For The RF Device.
	<a href="#">Roll</a>	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.
	<a href="#">RxTxType</a>	For All Receivers (i.e. ID's < 0) This Parameter Defines The Radio Being Used.

	<a href="#"><u>SignalToNoiseRatio_dB</u></a>	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.
	<a href="#"><u>StartTime</u></a>	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.
	<a href="#"><u>XPos</u></a>	XPos,YPos,ZPos Define The Transmitter / Receiver Positions In A Local Coordinate System With The Transmitter (ID=0) Being The Center Position.
	<a href="#"><u>Yaw</u></a>	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.
	<a href="#"><u>YPos</u></a>	XPos,YPos,ZPos Define The Transmitter / Receiver Positions In A Local Coordinate System With The Transmitter (ID=0) Being The Center Position.
	<a href="#"><u>ZPos</u></a>	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](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.Altitude Property

The Elevation Of The RF Device Above The Sea Level (Meter).

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public Altitude Altitude { get; set; }
```

*Property Value*

Type: [Altitude](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## 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](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public AntennaType AntennaType { get; set; }
```

*Property Value*

Type: [AntennaType](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.Bandwidth\_Hz Property

The Bandwidth Of The Transmitter.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.CenterFrequency\_Hz Property

For Transmitters (I.E. Id's  $\geq 0$ ) This Parameter Defines Transmitter Signal Center Frequency [Hz]. For Receivers (I.E. Id's  $< 0$ ) This Parameter Is Currently Unused.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.DeviceSource Property

The Source Of This RF Device.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public DeviceSource DeviceSource { get; set; }
```

*Property Value*

Type: [DeviceSource](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.Gain\_dB Property

For Transmitters (I.E. Id's  $\geq 0$ ) This Parameter Defines Transmitter Signal Power [Dbm]. For Receivers (I.E. Id's  $< 0$ ) This Parameter Is Currently Unused.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## 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](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public int Id { get; set; }
```

*Property Value*

Type: [Int32](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.Latitude Property

The Latitude Of The RF Device (WGS84).

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public Latitude Latitude { get; set; }
```

*Property Value*

Type: [Latitude](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.Longitude Property

The Longitude Of The RF Device (WGS84).

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public Longitude Longitude { get; set; }
```

*Property Value*

Type: [Longitude](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.Name Property

A Short Describing Display Name For The RF Device.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public string Name { get; set; }
```

*Property Value*

Type: [String](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## 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](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

C#

```
public double Pitch { get; set; }
```

*Property Value*

Type: [Double](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.PrimaryKey Property

The Unique PrimarKey For This RF Device.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public Guid PrimaryKey { get; set; }
```

*Property Value*

Type: [Guid](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.Remark Property

A Comment Or Remark For The RF Device.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public string Remark { get; set; }
```

*Property Value*

Type: [String](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## 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](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

C#

```
public double Roll { get; set; }
```

*Property Value*

Type: [Double](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.RxTxType Property

For All Receivers (i.e. ID's < 0) This Parameter Defines The Radio Being Used.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public RxTxType RxTxType { get; set; }
```

*Property Value*

Type: [RxTxType](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## 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](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## 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](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

C#

```
public double StartTime { get; set; }
```

*Property Value*

Type: [Double](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## 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](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public int XPos { get; set; }
```

*Property Value*

Type: [Int32](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## 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](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public double Yaw { get; set; }
```

*Property Value*

Type: [Double](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## 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](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public int YPos { get; set; }
```

*Property Value*

Type: [Int32](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## 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](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public int ZPos { get; set; }
```

*Property Value*

Type: [Int32](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.RFDevice Methods

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

### Methods

	Name	Description
	<a href="#">Clone</a>	Clones this instance.
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(RFDevice)</a>	Gibt an, ob das aktuelle Objekt gleich einem anderen Objekt des gleichen Typs ist.
	<a href="#">FromXml</a>	Froms the XML.
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a <a href="#">String</a> that represents this instance. (Overrides <a href="#">Object.ToString()</a> .)
	<a href="#">ToXml</a>	To the XML.
	<a href="#">Validate</a>	

### Extension Methods

	Name	Description
	<a href="#">WithAltitude</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#">WithAntennaType</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#">WithBandwidth_Hz</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#">WithCenterFrequency_Hz</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#">WithDeviceSource</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#">WithGain_dB</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#">WithId</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#">WithLatitude</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#">WithLongitude</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#">WithName</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#">WithPitch</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#">WithPrimaryKey</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#">WithRemark</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#">WithRoll</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#">WithRxTxType</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#">WithSignalToNoiseRatio_dB</a>	(Defined by <a href="#">RFDeviceExtensions</a> .)

	<a href="#"><u>WithStartTime</u></a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#"><u>WithXPos</u></a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#"><u>WithYaw</u></a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#"><u>WithYPos</u></a>	(Defined by <a href="#">RFDeviceExtensions</a> .)
	<a href="#"><u>WithZPos</u></a>	(Defined by <a href="#">RFDeviceExtensions</a> .)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.Clone Method

Clones this instance.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public RFDevice Clone()
```

*Return Value*

Type: [RFDevice](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.Equals Method

### Overload List

	Name	Description
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(RFDevice)</a>	Gibt an, ob das aktuelle Objekt gleich einem anderen Objekt des gleichen Typs ist.

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.Equals Method (RFDevice)

Gibt an, ob das aktuelle Objekt gleich einem anderen Objekt des gleichen Typs ist.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

Ein Objekt, das mit diesem Objekt verglichen werden soll.

### Return Value

Type: [Boolean](#)

true, wenn das aktuelle Objekt gleich dem *other*-Parameter ist, andernfalls false.

### Implements

[IEquatable\(T\).Equals\(T\)](#)

### See Also

[RFDevice Class](#)

[Equals Overload](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.FromXml Method

Froms the XML.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

The e root.

### Return Value

Type: [RFDevice](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.ToString Method

Returns a [String](#) that represents this instance.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public override string ToString()
```

#### *Return Value*

Type: [String](#)

A [String](#) that represents this instance.

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.ToXml Method

To the XML.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public XElement ToXml()
```

*Return Value*

Type:  [XElement](#)

*Implements*

[IXmlExport.ToXml\(\)](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.Validate Method

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public ValidationResultList Validate()
```

*Return Value*

Type: [ValidationResultList](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.RFDevice Events

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

### Events

	Name	Description
	<a href="#">PropertyChanged</a>	(Inherited from <a href="#">AbstractModelBase</a> .)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.RFDevice Fields

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

### Fields

	Name	Description
◆	<a href="#">ALTITUDE</a>	The PropertyName As ReadOnly String For Altitude.
◆	<a href="#">ANTENNATYPE</a>	The PropertyName As ReadOnly String For AntennaType.
◆	<a href="#">BANDWIDTH_HZ</a>	The PropertyName As ReadOnly String For Bandwidth_Hz.
◆	<a href="#">CENTERFREQUENCY_HZ</a>	The PropertyName As ReadOnly String For CenterFrequency_Hz.
◆	<a href="#">DEFAULT_ALTITUDE</a>	The DefaultValue For Altitude.
◆	<a href="#">DEFAULT_ANTENNATYPE</a>	The DefaultValue For AntennaType.
◆	<a href="#">DEFAULT_BANDWIDTH_HZ</a>	The DefaultValue For Bandwidth_Hz.
◆	<a href="#">DEFAULT_CENTERFREQUENCY_HZ</a>	The DefaultValue For CenterFrequency_Hz.
◆	<a href="#">DEFAULT_DEVICESOURCE</a>	The DefaultValue For DeviceSource.
◆	<a href="#">DEFAULT_GAIN_DB</a>	The DefaultValue For Gain_dB.
◆	<a href="#">DEFAULT_ID</a>	The DefaultValue For Id.
◆	<a href="#">DEFAULT_LATITUDE</a>	The DefaultValue For Latitude.
◆	<a href="#">DEFAULT_LONGITUDE</a>	The DefaultValue For Longitude.
◆	<a href="#">DEFAULT_NAME</a>	The DefaultValue For Name.
◆	<a href="#">DEFAULT_PITCH</a>	The DefaultValue For Pitch.
◆	<a href="#">DEFAULT_PRIMARYKEY</a>	The DefaultValue For PrimaryKey.
◆	<a href="#">DEFAULT_REMARK</a>	The DefaultValue For Remark.

 	<a href="#"><u>DEFAULT_ROLL</u></a>	The DefaultValue For Roll.
 	<a href="#"><u>DEFAULT_RXTXTYPE</u></a>	The DefaultValue For RxTxType.
 	<a href="#"><u>DEFAULT_SIGNALTONOISERATIO_DB</u></a>	The DefaultValue For SignalToNoiseRatio_dB.
 	<a href="#"><u>DEFAULT_STARTTIME</u></a>	The DefaultValue For StartTime.
 	<a href="#"><u>DEFAULT_XPOS</u></a>	The DefaultValue For XPos.
 	<a href="#"><u>DEFAULT_YAW</u></a>	The DefaultValue For Yaw.
 	<a href="#"><u>DEFAULT_YPOS</u></a>	The DefaultValue For YPos.
 	<a href="#"><u>DEFAULT_ZPOS</u></a>	The DefaultValue For ZPos.
 	<a href="#"><u>DEVICESOURCE</u></a>	The PropertyName As ReadOnly String For DeviceSource.
 	<a href="#"><u>GAIN_DB</u></a>	The PropertyName As ReadOnly String For Gain_db.
 	<a href="#"><u>ID</u></a>	The PropertyName As ReadOnly String For Id.
 	<a href="#"><u>LATITUDE</u></a>	The PropertyName As ReadOnly String For Latitude.
 	<a href="#"><u>LONGITUDE</u></a>	The PropertyName As ReadOnly String For Longitude.
 	<a href="#"><u>NAME</u></a>	The PropertyName As ReadOnly String For Name.
 	<a href="#"><u>PITCH</u></a>	The PropertyName As ReadOnly String For Pitch.
 	<a href="#"><u>PRIMARYKEY</u></a>	The PropertyName As ReadOnly String For PrimaryKey.
 	<a href="#"><u>REMARK</u></a>	The PropertyName As ReadOnly String For Remark.
 	<a href="#"><u>ROLL</u></a>	The PropertyName As ReadOnly String For Roll.
 	<a href="#"><u>RXTXTYPE</u></a>	The PropertyName As ReadOnly String For RxTxType.
 	<a href="#"><u>SIGNALTONOISERATIO_DB</u></a>	The PropertyName As ReadOnly String For SignalToNoiseRatio_dB.

 	<a href="#"><u>STARTTIME</u></a>	The PropertyName As ReadOnly String For StartTime.
 	<a href="#"><u>XPOS</u></a>	The PropertyName As ReadOnly String For XPos.
 	<a href="#"><u>YAW</u></a>	The PropertyName As ReadOnly String For Yaw.
 	<a href="#"><u>YPOS</u></a>	The PropertyName As ReadOnly String For YPos.
 	<a href="#"><u>ZPOS</u></a>	The PropertyName As ReadOnly String For ZPos.

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.ALTITUDE Field

The PropertyName As ReadOnly String For Altitude.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public const string ALTITUDE = "Altitude"
```

### Field Value

Type: [String](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.ANTENNATYPE Field

The PropertyName As ReadOnly String For AntennaType.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public const string ANTENNATYPE = "AntennaType"
```

### Field Value

Type: [String](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.BANDWIDTH\_HZ Field

The PropertyName As ReadOnly String For Bandwidth\_Hz.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.CENTERFREQUENCY\_HZ Field

The PropertyName As ReadOnly String For CenterFrequency\_Hz.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.DEFAULT\_ALTITUDE Field

The DefaultValue For Altitude.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.DEFAULT\_ANTENNATYPE Field

The DefaultValue For AntennaType.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.DEFAULT\_BANDWIDTH\_HZ Field

The DefaultValue For Bandwidth\_Hz.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.DEFAULT\_CENTERFREQUENCY\_HZ Field

The DefaultValue For CenterFrequency\_Hz.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.DEFAULT\_DEVICESOURCE Field

The DefaultValue For DeviceSource.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.DEFAULT\_GAIN\_DB Field

The DefaultValue For Gain\_dB.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.DEFAULT\_ID Field

The DefaultValue For Id.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.DEFAULT\_LATITUDE Field

The DefaultValue For Latitude.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.DEFAULT\_LONGITUDE Field

The DefaultValue For Longitude.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.DEFAULT\_NAME Field

The DefaultValue For Name.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.DEFAULT\_PITCH Field

The DefaultValue For Pitch.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.DEFAULT\_PRIMARYKEY Field

The DefaultValue For PrimaryKey.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.DEFAULT\_REMARK Field

The DefaultValue For Remark.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.DEFAULT\_ROLL Field

The DefaultValue For Roll.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.DEFAULT\_RXTXTYPE Field

The DefaultValue For RxTxType.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.DEFAULT\_SIGNALTONOISERATIO\_DB Field

The DefaultValue For SignalToNoiseRatio\_dB.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.DEFAULT\_STARTTIME Field

The DefaultValue For StartTime.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.DEFAULT\_XPOS Field

The DefaultValue For XPos.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.DEFAULT\_YAW Field

The DefaultValue For Yaw.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.DEFAULT\_YPOS Field

The DefaultValue For YPos.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.DEFAULT\_ZPOS Field

The DefaultValue For ZPos.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.DEVICESOURCE Field

The PropertyName As ReadOnly String For DeviceSource.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public const string DEVICESOURCE = "DeviceSource"
```

*Field Value*

Type: [String](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.GAIN\_DB Field

The PropertyName As ReadOnly String For Gain\_dB.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.ID Field

The PropertyName As ReadOnly String For Id.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public const string ID = "Id"
```

*Field Value*

Type: [String](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.LATITUDE Field

The PropertyName As ReadOnly String For Latitude.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public const string LATITUDE = "Latitude"
```

*Field Value*

Type: [String](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.LONGITUDE Field

The PropertyName As ReadOnly String For Longitude.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public const string LONGITUDE = "Longitude"
```

### Field Value

Type: [String](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.NAME Field

The PropertyName As ReadOnly String For Name.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public const string NAME = "Name"
```

*Field Value*

Type: [String](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.PITCH Field

The PropertyName As ReadOnly String For Pitch.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public const string PITCH = "Pitch"
```

*Field Value*

Type: [String](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.PRIMARYKEY Field

The PropertyName As ReadOnly String For PrimaryKey.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public const string PRIMARYKEY = "PrimaryKey"
```

### Field Value

Type: [String](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.REMARK Field

The PropertyName As ReadOnly String For Remark.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public const string REMARK = "Remark"
```

*Field Value*

Type: [String](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.ROLL Field

The PropertyName As ReadOnly String For Roll.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public const string ROLL = "Roll"
```

*Field Value*

Type: [String](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.RXTXTYPE Field

The PropertyName As ReadOnly String For RxTxType.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public const string RXTXTYPE = "RxTxType"
```

*Field Value*

Type: [String](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.SIGNALTONOISERATIO\_DB Field

The PropertyName As ReadOnly String For SignalToNoiseRatio\_dB.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.STARTTIME Field

The PropertyName As ReadOnly String For StartTime.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public const string STARTTIME = "StartTime"
```

*Field Value*

Type: [String](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.XPOS Field

The PropertyName As ReadOnly String For XPos.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public const string XPOS = "XPos"
```

*Field Value*

Type: [String](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.YAW Field

The PropertyName As ReadOnly String For Yaw.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public const string YAW = "Yaw"
```

### Field Value

Type: [String](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.YPOS Field

The PropertyName As ReadOnly String For YPos.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public const string YPOS = "YPos"
```

*Field Value*

Type: [String](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDevice.ZPOS Field

The PropertyName As ReadOnly String For ZPos.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public const string ZPOS = "ZPos"
```

*Field Value*

Type: [String](#)

### See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceExtensions Class

Represent A Device Based On A Radio Frequency.

### Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Models.RFDeviceExtensions

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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
	<a href="#">WithAltitude</a>	
	<a href="#">WithAntennaType</a>	
	<a href="#">WithBandwidth_Hz</a>	
	<a href="#">WithCenterFrequency_Hz</a>	
	<a href="#">WithDeviceSource</a>	
	<a href="#">WithGain_dB</a>	
	<a href="#">WithId</a>	
	<a href="#">WithLatitude</a>	
	<a href="#">WithLongitude</a>	
	<a href="#">WithName</a>	
	<a href="#">WithPitch</a>	
	<a href="#">WithPrimaryKey</a>	
	<a href="#">WithRemark</a>	
	<a href="#">WithRoll</a>	
	<a href="#">WithRxTxType</a>	
	<a href="#">WithSignalToNoiseRatio_dB</a>	
	<a href="#">WithStartTime</a>	
	<a href="#">WithXPos</a>	
	<a href="#">WithYaw</a>	
	<a href="#">WithYPos</a>	



[WithZPos](#)

[See Also](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceExtensions.RFDeviceExtensions Methods

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

### Methods

	<b>Name</b>	<b>Description</b>
 	<a href="#">WithAltitude</a>	
 	<a href="#">WithAntennaType</a>	
 	<a href="#">WithBandwidth_Hz</a>	
 	<a href="#">WithCenterFrequency_Hz</a>	
 	<a href="#">WithDeviceSource</a>	
 	<a href="#">WithGain_dB</a>	
 	<a href="#">WithId</a>	
 	<a href="#">WithLatitude</a>	
 	<a href="#">WithLongitude</a>	
 	<a href="#">WithName</a>	
 	<a href="#">WithPitch</a>	
 	<a href="#">WithPrimaryKey</a>	
 	<a href="#">WithRemark</a>	
 	<a href="#">WithRoll</a>	
 	<a href="#">WithRxTxType</a>	
 	<a href="#">WithSignalToNoiseRatio_dB</a>	
 	<a href="#">WithStartTime</a>	
 	<a href="#">WithXPos</a>	
 	<a href="#">WithYaw</a>	
 	<a href="#">WithYPos</a>	
 	<a href="#">WithZPos</a>	

### See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceExtensions.WithAltitude Method

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

*value*

Type: [SIGENCEScenarioTool.Datatypes.Geo.Altitude](#)

### Return Value

Type: [RFDevice](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceExtensions.WithAntennaType Method

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

*value*

Type: [SIGENCEScenarioTool.Models.AntennaType](#)

*Return Value*

Type: [RFDevice](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceExtensions.WithBandwidth\_Hz Method

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

*value*

Type: [SIGENCEScenarioTool.Datatypes.Physically.Bandwidth](#)

### Return Value

Type: [RFDevice](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceExtensions.WithCenterFrequency\_Hz Method

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

*value*

Type: [SIGENCEScenarioTool.Datatypes.Physically.Frequency](#)

### Return Value

Type: [RFDevice](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceExtensions.WithDeviceSource Method

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

*value*

Type: [SIGENCEScenarioTool.Models.DeviceSource](#)

*Return Value*

Type: [RFDevice](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceExtensions.WithGain\_dB Method

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

*value*

Type: [SIGENCEScenarioTool.Datatypes.Physically.Gain](#)

### Return Value

Type: [RFDevice](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceExtensions.WithId Method

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

*value*

Type: [System.Int32](#)

*Return Value*

Type: [RFDevice](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceExtensions.WithLatitude Method

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

*value*

Type: [SIGENCEScenarioTool.Datatypes.Geo.Latitude](#)

### Return Value

Type: [RFDevice](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceExtensions.WithLongitude Method

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

*value*

Type: [SIGENCEScenarioTool.Datatypes.Geo.Longitude](#)

### Return Value

Type: [RFDevice](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceExtensions.WithName Method

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

*value*

Type: [System.String](#)

*Return Value*

Type: [RFDevice](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceExtensions.WithPitch Method

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

*value*

Type: [System.Double](#)

*Return Value*

Type: [RFDevice](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceExtensions.WithPrimaryKey Method

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

*value*

Type: [System.Guid](#)

### Return Value

Type: [RFDevice](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceExtensions.WithRemark Method

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

*value*

Type: [System.String](#)

*Return Value*

Type: [RFDevice](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceExtensions.WithRoll Method

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

*value*

Type: [System.Double](#)

*Return Value*

Type: [RFDevice](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceExtensions.WithRxTxType Method

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

*value*

Type: [SIGENCEScenarioTool.Models.RxTxTypes.RxTxType](#)

*Return Value*

Type: [RFDevice](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceExtensions.WithSignalToNoiseRatio\_dB Method

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

*value*

Type: [SIGENCEScenarioTool.Datatypes.Physically.SignalToNoiseRatio](#)

*Return Value*

Type: [RFDevice](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceExtensions.WithStartTime Method

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

*value*

Type: [System.Double](#)

*Return Value*

Type: [RFDevice](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceExtensions.WithXPos Method

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

*value*

Type: [System.Int32](#)

*Return Value*

Type: [RFDevice](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceExtensions.WithYaw Method

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

*value*

Type: [System.Double](#)

*Return Value*

Type: [RFDevice](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceExtensions.WithYPos Method

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

*value*

Type: [System.Int32](#)

*Return Value*

Type: [RFDevice](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceExtensions.WithZPos Method

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

*value*

Type: [System.Int32](#)

*Return Value*

Type: [RFDevice](#)

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceList Class

### Inheritance Hierarchy

[System.Object](#)

[System.Collections.Generic.List\(RFDevice\)](#)

SIGENCEScenarioTool.Models.RFDeviceList

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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

	<b>Name</b>	<b>Description</b>
	<a href="#">RFDeviceList()</a>	Initializes a new instance of the <b>RFDeviceList</b> class.
	<a href="#">RFDeviceList(Int32)</a>	Initializes a new instance of the <b>RFDeviceList</b> class.
	<a href="#">RFDeviceList(IEnumerable(RFDevice))</a>	Initializes a new instance of the <b>RFDeviceList</b> class.

### Properties

	<b>Name</b>	<b>Description</b>
	<a href="#">Capacity</a>	Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from <a href="#">List(RFDevice)</a> .)
	<a href="#">Count</a>	Gets the number of elements contained in the <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
	<a href="#">Item</a>	Gets or sets the element at the specified index. (Inherited from <a href="#">List(RFDevice)</a> .)

### Methods

	<b>Name</b>	<b>Description</b>
	<a href="#">Add</a>	Adds an object to the end of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
	<a href="#">AddRange</a>	Adds the elements of the specified collection to the end of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
	<a href="#">AsReadOnly</a>	Returns a read-only <a href="#">IList(T)</a> wrapper for the current collection. (Inherited from <a href="#">List(RFDevice)</a> .)
	<a href="#">BinarySearch(T)</a>	Searches the entire sorted <a href="#">List(T)</a> for an element using the default comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(RFDevice)</a> .)

 <a href="#">BinarySearch(T, IComparer(T))</a>	Searches the entire sorted <a href="#">List(T)</a> for an element using the specified comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">BinarySearch(Int32, Int32, T, IComparer(T))</a>	Searches a range of elements in the sorted <a href="#">List(T)</a> for an element using the specified comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">Clear</a>	Removes all elements from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">Contains</a>	Determines whether an element is in the <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">ConvertAll(TOutput)</a>	Converts the elements in the current <a href="#">List(T)</a> to another type, and returns a list containing the converted elements. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">CopyTo(T[])</a>	Copies the entire <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the beginning of the target array. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">CopyTo(T[], Int32)</a>	Copies the entire <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">CopyTo(Int32,T[], Int32, Int32)</a>	Copies a range of elements from the <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">CreateRandomizedRFDeviceList</a>	Creates the randomized rf device list.
	
 <a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
 <a href="#">Exists</a>	Determines whether the <a href="#">List(T)</a> contains elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">Find</a>	Searches for an element that matches the conditions defined by the specified predicate, and returns the first occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">FindAll</a>	Retrieves all the elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">FindIndex(Predicate(T))</a>	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 <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">FindIndex(Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that

		extends from the specified index to the last element. (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">FindIndex(Int32, Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that starts at the specified index and contains the specified number of elements. (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">FindLast</a>	Searches for an element that matches the conditions defined by the specified predicate, and returns the last occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">FindLastIndex(Predicate(T))</a>	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 <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">FindLastIndex(Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that extends from the first element to the specified index. (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">FindLastIndex(Int32, Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that contains the specified number of elements and ends at the specified index. (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">ForEach</a>	Performs the specified action on each element of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">GetEnumerator</a>	Returns an enumerator that iterates through the <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
≡	<a href="#">GetRange</a>	Creates a shallow copy of a range of elements in the source <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
≡	<a href="#">IndexOf(T)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">IndexOf(T, Int32)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the <a href="#">List(T)</a> that extends from the specified index to the last element. (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">IndexOf(T, Int32, Int32)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the

		<a href="#">List(T)</a> that starts at the specified index and contains the specified number of elements. (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">Insert</a>	Inserts an element into the <a href="#">List(T)</a> at the specified index. (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">InsertRange</a>	Inserts the elements of a collection into the <a href="#">List(T)</a> at the specified index. (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">LastIndexOf(T)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">LastIndexOf(T, Int32)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the <a href="#">List(T)</a> that extends from the first element to the specified index. (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">LastIndexOf(T, Int32, Int32)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the <a href="#">List(T)</a> that contains the specified number of elements and ends at the specified index. (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">Remove</a>	Removes the first occurrence of a specific object from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">RemoveAll</a>	Removes all the elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">RemoveAt</a>	Removes the element at the specified index of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">RemoveRange</a>	Removes a range of elements from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">Reverse()</a>	Reverses the order of the elements in the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">Reverse(Int32, Int32)</a>	Reverses the order of the elements in the specified range. (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">Sort()</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the default comparer. (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">Sort(IComparer(T))</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the specified comparer. (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">Sort(Comparison(T))</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the specified <a href="#">Comparison(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">Sort(Int32, Int32, IComparer(T))</a>	Sorts the elements in a range of elements in <a href="#">List(T)</a> using the specified comparer. (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">ToArray</a>	Copies the elements of the <a href="#">List(T)</a> to a new array. (Inherited from <a href="#">List(RFDevice)</a> .)
≡	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

 <a href="#">TrimExcess</a>	Sets the capacity to the actual number of elements in the <a href="#">List(T)</a> , if that number is less than a threshold value. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">TrueForAll</a>	Determines whether every element in the <a href="#">List(T)</a> matches the conditions defined by the specified predicate. (Inherited from <a href="#">List(RFDevice)</a> .)

## Extension Methods

	Name	Description
 <a href="#">SaveAsCsv(RFDevice)</a>	Saves the list as CSV. (Defined by <a href="#">ListExtension</a> .)	
 <a href="#">SaveAsXml(RFDevice)</a>	Saves the list as XML. (Defined by <a href="#">ListExtension</a> .)	

## See Also

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceList Constructor

### Overload List

Name	Description
 <a href="#">RFDeviceList()</a>	Initializes a new instance of the <a href="#">RFDeviceList</a> class.
 <a href="#">RFDeviceList(Int32)</a>	Initializes a new instance of the <a href="#">RFDeviceList</a> class.
 <a href="#">RFDeviceList(IEnumerable(RFDevice))</a>	Initializes a new instance of the <a href="#">RFDeviceList</a> class.

### See Also

[RFDeviceList Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceList Constructor

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

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public RFDeviceList()
```

### See Also

[RFDeviceList Class](#)

[RFDeviceList Overload](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceList Constructor (Int32)

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

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public RFDeviceList(  
    int iInitialSize  
)
```

### Parameters

*iInitialSize*

Type: [System.Int32](#)

Initial size of the i.

### See Also

[RFDeviceList Class](#)

[RFDeviceList Overload](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceList Constructor (IEnumerable(RFDevice))

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

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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\(RFDevice\)](#)

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

### See Also

[RFDeviceList Class](#)

[RFDeviceList Overload](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceList.RFDeviceList Properties

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

### Properties

	Name	Description
	<a href="#">Capacity</a>	Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from <a href="#">List(RFDevice)</a> .)
	<a href="#">Count</a>	Gets the number of elements contained in the <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
	<a href="#">Item</a>	Gets or sets the element at the specified index. (Inherited from <a href="#">List(RFDevice)</a> .)

### See Also

[RFDeviceList Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceList.RFDeviceList Methods

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

### Methods

Name	Description
<a href="#">Add</a>	Adds an object to the end of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
<a href="#">AddRange</a>	Adds the elements of the specified collection to the end of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
<a href="#">AsReadOnly</a>	Returns a read-only <a href="#">IList(T)</a> wrapper for the current collection. (Inherited from <a href="#">List(RFDevice)</a> .)
<a href="#">BinarySearch(T)</a>	Searches the entire sorted <a href="#">List(T)</a> for an element using the default comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(RFDevice)</a> .)
<a href="#">BinarySearch(T, IComparer(T))</a>	Searches the entire sorted <a href="#">List(T)</a> for an element using the specified comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(RFDevice)</a> .)
<a href="#">BinarySearch(Int32, Int32, T, IComparer(T))</a>	Searches a range of elements in the sorted <a href="#">List(T)</a> for an element using the specified comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(RFDevice)</a> .)
<a href="#">Clear</a>	Removes all elements from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
<a href="#">Contains</a>	Determines whether an element is in the <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
<a href="#">ConvertAll(TOutput)</a>	Converts the elements in the current <a href="#">List(T)</a> to another type, and returns a list containing the converted elements. (Inherited from <a href="#">List(RFDevice)</a> .)
<a href="#">CopyTo(T[])</a>	Copies the entire <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the beginning of the target array. (Inherited from <a href="#">List(RFDevice)</a> .)
<a href="#">CopyTo(T[], Int32)</a>	Copies the entire <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from <a href="#">List(RFDevice)</a> .)
<a href="#">CopyTo(Int32, T[], Int32, Int32)</a>	Copies a range of elements from the <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from <a href="#">List(RFDevice)</a> .)
<a href="#">CreateRandomizedRFDeviceList</a>	Creates the randomized rf device list.
<a href="#">S</a>	
<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)

 <a href="#">Exists</a>	Determines whether the <a href="#">List(T)</a> contains elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">Find</a>	Searches for an element that matches the conditions defined by the specified predicate, and returns the first occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">FindAll</a>	Retrieves all the elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">FindIndex(Predicate(T))</a>	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 <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">FindIndex(Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that extends from the specified index to the last element. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">FindIndex(Int32, Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that starts at the specified index and contains the specified number of elements. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">FindLast</a>	Searches for an element that matches the conditions defined by the specified predicate, and returns the last occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">FindLastIndex(Predicate(T))</a>	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 <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">FindLastIndex(Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that extends from the first element to the specified index. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">FindLastIndex(Int32, Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that contains the specified number of elements and ends at the specified index. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">ForEach</a>	Performs the specified action on each element of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">GetEnumerator</a>	Returns an enumerator that iterates through the <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)

 <a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
 <a href="#">GetRange</a>	Creates a shallow copy of a range of elements in the source <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
 <a href="#">IndexOf(T)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">IndexOf(T, Int32)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the <a href="#">List(T)</a> that extends from the specified index to the last element. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">IndexOf(T, Int32, Int32)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the <a href="#">List(T)</a> that starts at the specified index and contains the specified number of elements. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">Insert</a>	Inserts an element into the <a href="#">List(T)</a> at the specified index. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">InsertRange</a>	Inserts the elements of a collection into the <a href="#">List(T)</a> at the specified index. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">LastIndexOf(T)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">LastIndexOf(T, Int32)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the <a href="#">List(T)</a> that extends from the first element to the specified index. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">LastIndexOf(T, Int32, Int32)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the <a href="#">List(T)</a> that contains the specified number of elements and ends at the specified index. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">Remove</a>	Removes the first occurrence of a specific object from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">RemoveAll</a>	Removes all the elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">RemoveAt</a>	Removes the element at the specified index of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">RemoveRange</a>	Removes a range of elements from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">Reverse()</a>	Reverses the order of the elements in the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)

 <a href="#">Reverse(Int32, Int32)</a>	Reverses the order of the elements in the specified range. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">Sort()</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the default comparer. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">Sort(IComparer(T))</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the specified comparer. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">Sort(Comparison(T))</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the specified <a href="#">Comparison(T)</a> . (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">Sort(Int32, Int32, IComparer(T))</a>	Sorts the elements in a range of elements in <a href="#">List(T)</a> using the specified comparer. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">ToArray</a>	Copies the elements of the <a href="#">List(T)</a> to a new array. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
 <a href="#">TrimExcess</a>	Sets the capacity to the actual number of elements in the <a href="#">List(T)</a> , if that number is less than a threshold value. (Inherited from <a href="#">List(RFDevice)</a> .)
 <a href="#">TrueForAll</a>	Determines whether every element in the <a href="#">List(T)</a> matches the conditions defined by the specified predicate. (Inherited from <a href="#">List(RFDevice)</a> .)

## Extension Methods

	Name	Description
 <a href="#">SaveAsCsv(RFDevice)</a>	Saves the list as CSV. (Defined by <a href="#">ListExtension</a> .)	
 <a href="#">SaveAsXml(RFDevice)</a>	Saves the list as XML. (Defined by <a href="#">ListExtension</a> .)	

## See Also

[RFDeviceList Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceList.CreateRandomizedRFDeviceList Method

Creates the randomized rf device list.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static RFDeviceList CreateRandomizedRFDeviceList(  
    int iMaxCount,  
    PointLatLng plCenter,  
    bool bEnsureRefDevice = false  
)
```

### Parameters

*iMaxCount*

Type: [System.Int32](#)

The i maximum count.

*plCenter*

Type: [PointLatLng](#)

The PLL center.

*bEnsureRefDevice* (Optional)

Type: [System.Boolean](#)

if set to `true` [b ensure reference device].

### Return Value

Type: [RFDeviceList](#)

### See Also

[RFDeviceList Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceTooltips Class

The tooltips for our properties to display in the HMI.

### Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Models.RFDeviceTooltips

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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
	<a href="#">RFDeviceTooltips</a>	Initializes a new instance of the <b>RFDeviceTooltips</b> class

### Properties

	Name	Description
	<a href="#">TOOLTIP_ALTITUDE</a>	The tooltip for the Altitude.
	<a href="#">TOOLTIP_ANTENNATYPE</a>	The tooltip for the AntennaType.
	<a href="#">TOOLTIP_BANDWIDTH_HZ</a>	The tooltip for the Bandwidth_Hz.
	<a href="#">TOOLTIP_CENTERFREQUENCY_HZ</a>	The tooltip for the CenterFrequency_Hz.
	<a href="#">TOOLTIP_DEVICESOURCE</a>	The tooltip for the DeviceSource.
	<a href="#">TOOLTIP_GAIN_DB</a>	The tooltip for the Gain_db.
	<a href="#">TOOLTIP_ID</a>	The tooltip for the Id.
	<a href="#">TOOLTIP_LATITUDE</a>	The tooltip for the Latitude.
	<a href="#">TOOLTIP_LONGITUDE</a>	The tooltip for the Longitude.
	<a href="#">TOOLTIP_NAME</a>	The tooltip for the Name.
	<a href="#">TOOLTIP_PITCH</a>	The tooltip for the Pitch.
	<a href="#">TOOLTIP_PRIMARYKEY</a>	The tooltip for the PrimaryKey.
	<a href="#">TOOLTIP_REMARK</a>	The tooltip for the Remark.
	<a href="#">TOOLTIP_ROLL</a>	The tooltip for the Roll.
	<a href="#">TOOLTIP_RXTXTYPE</a>	The tooltip for the RxTxType.
	<a href="#">TOOLTIP_SIGNALTONOISERATIO_DB</a>	The tooltip for the SignalToNoiseRatio_db.

	<a href="#">TOOLTIP_STARTTIME</a>	The tooltip for the StartTime.
	<a href="#">TOOLTIP_XPOS</a>	The tooltip for the XPos.
	<a href="#">TOOLTIP_YAW</a>	The tooltip for the Yaw.
	<a href="#">TOOLTIP_YPOS</a>	The tooltip for the YPos.
	<a href="#">TOOLTIP_ZPOS</a>	The tooltip for the ZPos.

## Methods

	<b>Name</b>	<b>Description</b>
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

## See Also

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceTooltips Constructor

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

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public RFDeviceTooltips()
```

### See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceTooltips.RFDeviceTooltips Properties

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

### Properties

	<b>Name</b>	<b>Description</b>
	<a href="#">TOOLTIP_ALTITUDE</a>	The tooltip for the Altitude.
	<a href="#">TOOLTIP_ANTENNATYPE</a>	The tooltip for the AntennaType.
	<a href="#">TOOLTIP_BANDWIDTH_HZ</a>	The tooltip for the Bandwidth_Hz.
	<a href="#">TOOLTIP_CENTERFREQUENCY_HZ</a>	The tooltip for the CenterFrequency_Hz.
	<a href="#">TOOLTIP_DEVICESOURCE</a>	The tooltip for the DeviceSource.
	<a href="#">TOOLTIP_GAIN_DB</a>	The tooltip for the Gain_dB.
	<a href="#">TOOLTIP_ID</a>	The tooltip for the Id.
	<a href="#">TOOLTIP_LATITUDE</a>	The tooltip for the Latitude.
	<a href="#">TOOLTIP_LONGITUDE</a>	The tooltip for the Longitude.
	<a href="#">TOOLTIP_NAME</a>	The tooltip for the Name.
	<a href="#">TOOLTIP_PITCH</a>	The tooltip for the Pitch.
	<a href="#">TOOLTIP_PRIMARYKEY</a>	The tooltip for the PrimaryKey.
	<a href="#">TOOLTIP_REMARK</a>	The tooltip for the Remark.
	<a href="#">TOOLTIP_ROLL</a>	The tooltip for the Roll.
	<a href="#">TOOLTIP_RXTXTYPE</a>	The tooltip for the RxTxType.
	<a href="#">TOOLTIP_SIGNALTONOISERATIO_DB</a>	The tooltip for the SignalToNoiseRatio_dB.
	<a href="#">TOOLTIP_STARTTIME</a>	The tooltip for the StartTime.
	<a href="#">TOOLTIP_XPOS</a>	The tooltip for the XPos.
	<a href="#">TOOLTIP_YAW</a>	The tooltip for the Yaw.
	<a href="#">TOOLTIP_YPOS</a>	The tooltip for the YPos.
	<a href="#">TOOLTIP_ZPOS</a>	The tooltip for the ZPos.

### See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceTooltips.TOOLTIP\_ALTITUDE Property

The tooltip for the Altitude.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public string TOOLTIP_ALTITUDE { get; }
```

*Property Value*

Type: [String](#)

### See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceTooltips.TOOLTIP\_ANTENNATYPE Property

The tooltip for the AntennaType.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public string TOOLTIP_ANTENNATYPE { get; }
```

*Property Value*

Type: [String](#)

### See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceTooltips.TOOLTIP\_BANDWIDTH\_HZ Property

The tooltip for the Bandwidth\_Hz.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceTooltips.TOOLTIP\_CENTERFREQUENCY\_HZ Property

The tooltip for the CenterFrequency\_Hz.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceTooltips.TOOLTIP\_DEVICESOURCE Property

The tooltip for the DeviceSource.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public string TOOLTIP_DEVICESOURCE { get; }
```

*Property Value*

Type: [String](#)

### See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceTooltips.TOOLTIP\_GAIN\_DB Property

The tooltip for the Gain\_dB.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceTooltips.TOOLTIP\_ID Property

The tooltip for the Id.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public string TOOLTIP_ID { get; }
```

*Property Value*

Type: [String](#)

### See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceTooltips.TOOLTIP\_LATITUDE Property

The tooltip for the Latitude.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public string TOOLTIP_LATITUDE { get; }
```

*Property Value*

Type: [String](#)

### See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceTooltips.TOOLTIP\_LONGITUDE Property

The tooltip for the Longitude.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public string TOOLTIP_LONGITUDE { get; }
```

*Property Value*

Type: [String](#)

### See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceTooltips.TOOLTIP\_NAME Property

The tooltip for the Name.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public string TOOLTIP_NAME { get; }
```

*Property Value*

Type: [String](#)

### See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceTooltips.TOOLTIP\_PITCH Property

The tooltip for the Pitch.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public string TOOLTIP_PITCH { get; }
```

*Property Value*

Type: [String](#)

### See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceTooltips.TOOLTIP\_PRIMARYKEY Property

The tooltip for the PrimaryKey.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public string TOOLTIP_PRIMARYKEY { get; }
```

*Property Value*

Type: [String](#)

### See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceTooltips.TOOLTIP\_REMARK Property

The tooltip for the Remark.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public string TOOLTIP_REMARK { get; }
```

*Property Value*

Type: [String](#)

### See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceTooltips.TOOLTIP\_ROLL Property

The tooltip for the Roll.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public string TOOLTIP_ROLL { get; }
```

*Property Value*

Type: [String](#)

### See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceTooltips.TOOLTIP\_RXTXTYPE Property

The tooltip for the RxTxType.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public string TOOLTIP_RXTXTYPE { get; }
```

*Property Value*

Type: [String](#)

### See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceTooltips.TOOLTIP\_SIGNALTONOISERATIO\_DB Property

The tooltip for the SignalToNoiseRatio\_dB.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**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](#)

### See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceTooltips.TOOLTIP\_STARTTIME Property

The tooltip for the StartTime.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public string TOOLTIP_STARTTIME { get; }
```

*Property Value*

Type: [String](#)

### See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceTooltips.TOOLTIP\_XPOS Property

The tooltip for the XPos.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public string TOOLTIP_XPOS { get; }
```

*Property Value*

Type: [String](#)

### See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceTooltips.TOOLTIP\_YAW Property

The tooltip for the Yaw.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public string TOOLTIP_YAW { get; }
```

*Property Value*

Type: [String](#)

### See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceTooltips.TOOLTIP\_YPOS Property

The tooltip for the YPos.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public string TOOLTIP_YPOS { get; }
```

*Property Value*

Type: [String](#)

### See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceTooltips.TOOLTIP\_ZPOS Property

The tooltip for the ZPos.

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public string TOOLTIP_ZPOS { get; }
```

*Property Value*

Type: [String](#)

### See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## RFDeviceTooltips.RFDeviceTooltips Methods

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

### Methods

	Name	Description
 	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
 	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
 	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
 	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

### See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

## Servity Enumeration

**Namespace:** [SIGENCEScenarioTool.Models](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

C#

```
public enum Servity
```

### Members

	<b>Member name</b>	<b>Value</b>	<b>Description</b>
	<b>Information</b>	0	The information
	<b>Warning</b>	1	The warning
	<b>Error</b>	2	The error
	<b>Fatal</b>	3	The fatal

### See Also

[SIGENCEScenarioTool.Models Namespace](#)

## SIGENCEScenarioTool.Models.RxTxTypes Namespace

### Classes

	<b>Class</b>	<b>Description</b>
	<a href="#"><u>RxTxType</u></a>	A class to encapsule an RxTxType.
	<a href="#"><u>RxTxTypes</u></a>	A class with all known RxTxTypes as static Property.

## RxTxType Class

A class to encapsule an RxTxType.

### Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Models.RxTxTypes.RxTxType

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#)

**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
	<a href="#">Name</a>	Gets the name.
	<a href="#">Remark</a>	Gets the remark.
	<a href="#">Value</a>	Gets the value.

### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a <a href="#">String</a> that represents this instance. (Overrides <a href="#">Object.ToString()</a> .)

### Operators

	Name	Description
	<a href="#">Implicit(RxTxType to Int32)</a>	Performs an implicit conversion from <b>RxTxType</b> to <a href="#">Int32</a> .

### See Also

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxType.RxTxType Properties

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

### Properties

	<b>Name</b>	<b>Description</b>
	<a href="#">Name</a>	Gets the name.
	<a href="#">Remark</a>	Gets the remark.
	<a href="#">Value</a>	Gets the value.

### See Also

[RxTxType Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxType.Name Property

Gets the name.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public string Name { get; }
```

### Property Value

Type: [String](#)

The name.

### See Also

[RxTxType Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxType.Remark Property

Gets the remark.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public string Remark { get; }
```

### Property Value

Type: [String](#)

The remark.

### See Also

[RxTxType Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxType.Value Property

Gets the value.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public int Value { get; }
```

*Property Value*

Type: [Int32](#)

The value.

### See Also

[RxTxType Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxType.RxTxType Methods

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

### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a <a href="#">String</a> that represents this instance. (Overrides <a href="#">Object.ToString()</a> .)

### See Also

[RxTxType Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxType.ToString Method

Returns a [String](#) that represents this instance.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public override string ToString()
```

### *Return Value*

Type: [String](#)

A [String](#) that represents this instance.

### See Also

[RxTxType Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxType.RxTxType Type Conversions

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

### Operators

	<b>Name</b>	<b>Description</b>
 	<a href="#">Implicit(RxTxType to Int32)</a>	Performs an implicit conversion from <a href="#">RxTxType</a> to <a href="#">Int32</a> .

### See Also

[RxTxType Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxType Implicit Conversion (RxTxType to Int32)

Performs an implicit conversion from [RxTxType](#) to [Int32](#).

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#)

**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](#)

The RTT.

### Return Value

Type: [Int32](#)

The result of the conversion.

### See Also

[RxTxType Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxTypes Class

A class with all known RxTxTypes as static Property.

### Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Models.RxTxTypes.RxTxTypes

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#)

**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
	<a href="#">AIS</a>	AIS Signal.
	<a href="#">B200mini</a>	Ettus B200mini.
	<a href="#">FMBroadcast</a>	This Is A Fm Broadcast Radio Transmitter (Awgn Noise Signal) With Input 20Khz Signal And 50Khz Bandwidth.
	<a href="#">GPSJammer</a>	10MHz L1 GPS Jammer.
	<a href="#">HackRF</a>	HackRF One.
	<a href="#">IdealSDR</a>	Ideal Sdr Receiver (Passes Signal Through).
	<a href="#">Iridium</a>	Iridium Satcom Transmitter.
	<a href="#">LTE</a>	LTE Signal.
	<a href="#">NFMRadio</a>	Narrow Fm Band (Voice With 5Khz Bandwidth).
	<a href="#">QPSK</a>	QPSK Signal With 2kHz Bandwidth.
	<a href="#">SIN</a>	This Is A Sine Generator A 500Hz Frequency.

	<a href="#">TwinRx</a>	Ettus X310 / TwinRx.
	<a href="#">Unknown</a>	Unknown RxTxType.
	<a href="#">Values</a>	Gets the list with all RxTxType's.

## Methods

	Name	Description
	<a href="#">FromInt</a>	Returns the RxTxType from a int value.
	<a href="#">FromString</a>	Froms the string.

## See Also

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxTypes.RxTxTypes Properties

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

### Properties

	Name	Description
	<a href="#">AIS</a>	AIS Signal.
		
	<a href="#">B200mini</a>	Ettus B200mini.
		
	<a href="#">FMBroadcast</a>	This Is A Fm Broadcast Radio Transmitter (Awgn Noise Signal) With Input 20Khz Signal And 50Khz Bandwidth.
	<a href="#">GPSJammer</a>	10MHz L1 GPS Jammer.
		
	<a href="#">HackRF</a>	HackRF One.
		
	<a href="#">IdealSDR</a>	Ideal Sdr Receiver (Passes Signal Through).
		
	<a href="#">Iridium</a>	Iridium Satcom Transmitter.
		
	<a href="#">LTE</a>	LTE Signal.
		
	<a href="#">NFMRadio</a>	Narrow Fm Band (Voice With 5Khz Bandwidth).
		
	<a href="#">QPSK</a>	QPSK Signal With 2kHz Bandwidth.
		
	<a href="#">SIN</a>	This Is A Sine Generator A 500Hz Frequency.
		
	<a href="#">TwinRx</a>	Ettus X310 / TwinRx.
		
	<a href="#">Unknown</a>	Unknown RxTxType.
		
	<a href="#">Values</a>	Gets the list with all RxTxType's.
		

### See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxTypes.AIS Property

AIS Signal.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

C#

```
public static RxTxType AIS { get; }
```

*Property Value*

Type: [RxTxType](#)

### See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxTypes.B200mini Property

Ettus B200mini.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static RxTxType B200mini { get; }
```

*Property Value*

Type: [RxTxType](#)

### See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxTypes.FMBroadcast Property

This Is A Fm Broadcast Radio Transmitter (Awgn Noise Signal) With Input 20Khz Signal And 50Khz Bandwidth.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public static RxTxType FMBroadcast { get; }
```

*Property Value*

Type: [RxTxType](#)

### See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxTypes.GPSJammer Property

10MHz L1 GPS Jammer.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static RxTxType GPSJammer { get; }
```

### Property Value

Type: [RxTxType](#)

### See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxTypes.HackRF Property

HackRF One.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static RxTxType HackRF { get; }
```

*Property Value*

Type: [RxTxType](#)

### See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxTypes.IdealSDR Property

Ideal Sdr Receiver (Passes Signal Through).

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static RxTxType IdealSDR { get; }
```

### Property Value

Type: [RxTxType](#)

### See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxTypes.Iridium Property

Iridium Satcom Transmitter.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static RxTxType Iridium { get; }
```

*Property Value*

Type: [RxTxType](#)

### See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxTypes.LTE Property

LTE Signal.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static RxTxType LTE { get; }
```

*Property Value*

Type: [RxTxType](#)

### See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxTypes.NFMRadio Property

Narrow Fm Band (Voice With 5Khz Bandwidth).

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static RxTxType NFMRadio { get; }
```

### Property Value

Type: [RxTxType](#)

### See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxTypes.QPSK Property

QPSK Signal With 2kHz Bandwidth.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static RxTxType QPSK { get; }
```

*Property Value*

Type: [RxTxType](#)

### See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxTypes.SIN Property

This Is A Sine Generator A 500Hz Frequency.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public static RxTxType SIN { get; }
```

*Property Value*

Type: [RxTxType](#)

### See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxTypes.TwinRx Property

Ettus X310 / TwinRx.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static RxTxType TwinRx { get; }
```

*Property Value*

Type: [RxTxType](#)

### See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxTypes.Unknown Property

Unknown RxTxType.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static RxTxType Unknown { get; }
```

*Property Value*

Type: [RxTxType](#)

### See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxTypes.Values Property

Gets the list with all RxTxType's.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#)

**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\(RxTxType\)](#)

The values.

### See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxTypes.RxTxTypes Methods

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

### Methods

	Name	Description
	<a href="#">FromInt</a>	Returns the RxTxType from a int value.
	<a href="#">FromString</a>	Froms the string.

### See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxTypes.FromInt Method

Returns the RxTxType from a int value.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#)

**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](#)

The rf device identifier.

*iValue*

Type: [System.Int32](#)

The value.

#### Return Value

Type: [RxTxType](#)

### 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](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## RxTxTypes.FromString Method

Froms the string.

**Namespace:** [SIGENCEScenarioTool.Models.RxTxTypes](#)

**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](#)

Name of the string.

#### Return Value

Type: [RxTxType](#)

### See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

## SIGENCEScenarioTool.Models.Validation Namespace

### Classes

	<b>Class</b>	<b>Description</b>
	<a href="#"><u>ValidationResult</u></a>	
	<a href="#"><u>ValidationResultList</u></a>	

## ValidationResult Class

### Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Models.Validation.ValidationResult

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#)

**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
	<a href="#">ValidationResult</a>	Initializes a new instance of the <b>ValidationResult</b> class.

### Properties

	Name	Description
	<a href="#">Id</a>	Gets the identifier.
	<a href="#">Message</a>	Gets the message.
	<a href="#">PropertyName</a>	Gets the property.
	<a href="#">Servity</a>	Gets the servity.
	<a href="#">Source</a>	Gets the source.
	<a href="#">Timestamp</a>	Gets the timestamp.
	<a href="#">Value</a>	Gets the value.

### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

### See Also

[SIGENCEScenarioTool.Models.Validation Namespace](#)



## ValidationResult Constructor

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

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#)

**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](#)

The servity.

*strMessage*

Type: [System.String](#)

The message.

*oSource*

Type: [System.Object](#)

The source.

*strPropertyName*

Type: [System.String](#)

Name of the property.

*oValue*

Type: [System.Object](#)

The value.

#### See Also

[ValidationResult Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

## ValidationResult.ValidationResult Properties

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

### Properties

	Name	Description
	<a href="#">Id</a>	Gets the identifier.
	<a href="#">Message</a>	Gets the message.
	<a href="#">PropertyName</a>	Gets the property.
	<a href="#">Servity</a>	Gets the servity.
	<a href="#">Source</a>	Gets the source.
	<a href="#">Timestamp</a>	Gets the timestamp.
	<a href="#">Value</a>	Gets the value.

### See Also

[ValidationResult Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

## ValidationResult.Id Property

Gets the identifier.

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public Guid Id { get; }
```

### Property Value

Type: [Guid](#)

The identifier.

### See Also

[ValidationResult Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

## ValidationResult.Message Property

Gets the message.

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public string Message { get; }
```

### Property Value

Type: [String](#)

The message.

### See Also

[ValidationResult Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

## ValidationResult.PropertyName Property

Gets the property.

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public string PropertyName { get; }
```

*Property Value*

Type: [String](#)

The property.

### See Also

[ValidationResult Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

## ValidationResult.Servity Property

Gets the servity.

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public Servity Servity { get; }
```

### Property Value

Type: [Servity](#)

The servity.

### See Also

[ValidationResult Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

## ValidationResult.Source Property

Gets the source.

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public Object Source { get; }
```

#### *Property Value*

Type: [Object](#)

The source.

### See Also

[ValidationResult Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

## ValidationResult.Timestamp Property

Gets the timestamp.

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public DateTime Timestamp { get; }
```

### Property Value

Type: [DateTime](#)

The timestamp.

### See Also

[ValidationResult Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

## ValidationResult.Value Property

Gets the value.

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public Object Value { get; }
```

*Property Value*

Type: [Object](#)

The value.

### See Also

[ValidationResult Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

## ValidationResult.ValidationResult Methods

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

### Methods

	Name	Description
 	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
 	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
 	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
 	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

### See Also

[ValidationResult Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

## ValidationResultList Class

Inheritance Hierarchy

[System.Object](#)

[System.Collections.Generic.List\(ValidationResult\)](#)

SIGENCEScenarioTool.Models.Validation ValidationResultList

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#)

**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
	<a href="#">ValidationResultList</a>	Initializes a new instance of the <b>ValidationResultList</b> class

### Properties

	Name	Description
	<a href="#">Capacity</a>	Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from <a href="#">List(ValidationResult)</a> .)
	<a href="#">Count</a>	Gets the number of elements contained in the <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
	<a href="#">Empty</a>	Gets the empty.
	<a href="#">Item</a>	Gets or sets the element at the specified index. (Inherited from <a href="#">List(ValidationResult)</a> .)

### Methods

	Name	Description
	<a href="#">Add(T)</a>	Adds an object to the end of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
	<a href="#">Add(Servity, String, Object, String, Object)</a>	Adds the specified validation.
	<a href="#">AddRange</a>	Adds the elements of the specified collection to the end of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
	<a href="#">AsReadOnly</a>	Returns a read-only <a href="#">IList(T)</a> wrapper for the current collection. (Inherited from <a href="#">List(ValidationResult)</a> .)

 <a href="#">BinarySearch(T)</a>	Searches the entire sorted <a href="#">List(T)</a> for an element using the default comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">BinarySearch(T, IComparer(T))</a>	Searches the entire sorted <a href="#">List(T)</a> for an element using the specified comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">BinarySearch(Int32, Int32, T, IComparer(T))</a>	Searches a range of elements in the sorted <a href="#">List(T)</a> for an element using the specified comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">Clear</a>	Removes all elements from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">Contains</a>	Determines whether an element is in the <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">ConvertAll(TOutput)</a>	Converts the elements in the current <a href="#">List(T)</a> to another type, and returns a list containing the converted elements. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">CopyTo(T[])</a>	Copies the entire <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the beginning of the target array. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">CopyTo(T[], Int32)</a>	Copies the entire <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">CopyTo(Int32, T[], Int32, Int32)</a>	Copies a range of elements from the <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
 <a href="#">Exists</a>	Determines whether the <a href="#">List(T)</a> contains elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">Find</a>	Searches for an element that matches the conditions defined by the specified predicate, and returns the first occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">FindAll</a>	Retrieves all the elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">FindIndex(Predicate(T))</a>	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 <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">FindIndex(Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that extends

		from the specified index to the last element. (Inherited from <a href="#">List(ValidationResult)</a> .)
≡	<a href="#">FindIndex(Int32, Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that starts at the specified index and contains the specified number of elements. (Inherited from <a href="#">List(ValidationResult)</a> .)
≡	<a href="#">FindLast</a>	Searches for an element that matches the conditions defined by the specified predicate, and returns the last occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
≡	<a href="#">FindLastIndex(Predicate(T))</a>	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 <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
≡	<a href="#">FindLastIndex(Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that extends from the first element to the specified index. (Inherited from <a href="#">List(ValidationResult)</a> .)
≡	<a href="#">FindLastIndex(Int32, Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that contains the specified number of elements and ends at the specified index. (Inherited from <a href="#">List(ValidationResult)</a> .)
≡	<a href="#">ForEach</a>	Performs the specified action on each element of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
≡	<a href="#">GetEnumerator</a>	Returns an enumerator that iterates through the <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
≡	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
≡	<a href="#">GetRange</a>	Creates a shallow copy of a range of elements in the source <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
≡	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
≡	<a href="#">IndexOf(T)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
≡	<a href="#">IndexOf(T, Int32)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the <a href="#">List(T)</a> that extends from the specified index to the last element. (Inherited from <a href="#">List(ValidationResult)</a> .)
≡	<a href="#">IndexOf(T, Int32, Int32)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the <a href="#">List(T)</a> that

		starts at the specified index and contains the specified number of elements. (Inherited from <a href="#">List(ValidationResult)</a> .)
≡♥	<a href="#">Insert</a>	Inserts an element into the <a href="#">List(T)</a> at the specified index. (Inherited from <a href="#">List(ValidationResult)</a> .)
≡♥	<a href="#">InsertRange</a>	Inserts the elements of a collection into the <a href="#">List(T)</a> at the specified index. (Inherited from <a href="#">List(ValidationResult)</a> .)
≡♥	<a href="#">LastIndexOf(T)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
≡♥	<a href="#">LastIndexOf(T, Int32)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the <a href="#">List(T)</a> that extends from the first element to the specified index. (Inherited from <a href="#">List(ValidationResult)</a> .)
≡♥	<a href="#">LastIndexOf(T, Int32, Int32)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the <a href="#">List(T)</a> that contains the specified number of elements and ends at the specified index. (Inherited from <a href="#">List(ValidationResult)</a> .)
≡♥	<a href="#">Remove</a>	Removes the first occurrence of a specific object from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
≡♥	<a href="#">RemoveAll</a>	Removes all the elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(ValidationResult)</a> .)
≡♥	<a href="#">RemoveAt</a>	Removes the element at the specified index of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
≡♥	<a href="#">RemoveRange</a>	Removes a range of elements from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
≡♥	<a href="#">Reverse()</a>	Reverses the order of the elements in the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
≡♥	<a href="#">Reverse(Int32, Int32)</a>	Reverses the order of the elements in the specified range. (Inherited from <a href="#">List(ValidationResult)</a> .)
≡♥	<a href="#">Sort()</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the default comparer. (Inherited from <a href="#">List(ValidationResult)</a> .)
≡♥	<a href="#">Sort(IComparer(T))</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the specified comparer. (Inherited from <a href="#">List(ValidationResult)</a> .)
≡♥	<a href="#">Sort(Comparison(T))</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the specified <a href="#">Comparison(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
≡♥	<a href="#">Sort(Int32, Int32, IComparer(T))</a>	Sorts the elements in a range of elements in <a href="#">List(T)</a> using the specified comparer. (Inherited from <a href="#">List(ValidationResult)</a> .)
≡♥	<a href="#">ToArray</a>	Copies the elements of the <a href="#">List(T)</a> to a new array. (Inherited from <a href="#">List(ValidationResult)</a> .)
≡♥	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

 <a href="#">TrimExcess</a>	Sets the capacity to the actual number of elements in the <a href="#">List(T)</a> , if that number is less than a threshold value. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">TrueForAll</a>	Determines whether every element in the <a href="#">List(T)</a> matches the conditions defined by the specified predicate. (Inherited from <a href="#">List(ValidationResult)</a> .)

## Extension Methods

	Name	Description
 <a href="#">SaveAsCsv(ValidationResult)</a>	Saves the list as CSV. (Defined by <a href="#">ListExtension</a> .)	

## See Also

[SIGENCEScenarioTool.Models.Validation Namespace](#)

[!System.Collections.Generic.List<SIGENCEScenarioTool.Models.Validation.ValidationResult>]

## ValidationResultList Constructor

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

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public ValidationResultList()
```

### See Also

[ValidationResultList Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

## ValidationResultList.ValidationResultList Properties

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

### Properties

	Name	Description
	<a href="#">Capacity</a>	Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from <a href="#">List(ValidationResult)</a> .)
	<a href="#">Count</a>	Gets the number of elements contained in the <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
	<a href="#">Empty</a>	Gets the empty.
	<a href="#">Item</a>	Gets or sets the element at the specified index. (Inherited from <a href="#">List(ValidationResult)</a> .)

### See Also

[ValidationResultList Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

## ValidationResultList.Empty Property

Gets the empty.

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static ValidationResultList Empty { get; }
```

#### *Property Value*

Type: [ValidationResultList](#)

The empty.

### See Also

[ValidationResultList Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

## ValidationResultList.ValidationResultList Methods

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

### Methods

Name	Description
<a href="#">Add(T)</a>	Adds an object to the end of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
<a href="#">Add(Servity, String, Object, String, Object)</a>	Adds the specified validation.
<a href="#">AddRange</a>	Adds the elements of the specified collection to the end of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
<a href="#">AsReadOnly</a>	Returns a read-only <a href="#">IList(T)</a> wrapper for the current collection. (Inherited from <a href="#">List(ValidationResult)</a> .)
<a href="#">BinarySearch(T)</a>	Searches the entire sorted <a href="#">List(T)</a> for an element using the default comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(ValidationResult)</a> .)
<a href="#">BinarySearch(T, IComparer(T))</a>	Searches the entire sorted <a href="#">List(T)</a> for an element using the specified comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(ValidationResult)</a> .)
<a href="#">BinarySearch(Int32, Int32, T, IComparer(T))</a>	Searches a range of elements in the sorted <a href="#">List(T)</a> for an element using the specified comparer and returns the zero-based index of the element. (Inherited from <a href="#">List(ValidationResult)</a> .)
<a href="#">Clear</a>	Removes all elements from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
<a href="#">Contains</a>	Determines whether an element is in the <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
<a href="#">ConvertAll(TOutput)</a>	Converts the elements in the current <a href="#">List(T)</a> to another type, and returns a list containing the converted elements. (Inherited from <a href="#">List(ValidationResult)</a> .)
<a href="#">CopyTo(T[])</a>	Copies the entire <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the beginning of the target array. (Inherited from <a href="#">List(ValidationResult)</a> .)
<a href="#">CopyTo(T[], Int32)</a>	Copies the entire <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from <a href="#">List(ValidationResult)</a> .)
<a href="#">CopyTo(Int32, T[], Int32, Int32)</a>	Copies a range of elements from the <a href="#">List(T)</a> to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from <a href="#">List(ValidationResult)</a> .)
<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)

 <a href="#">Exists</a>	Determines whether the <a href="#">List(T)</a> contains elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">Find</a>	Searches for an element that matches the conditions defined by the specified predicate, and returns the first occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">FindAll</a>	Retrieves all the elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">FindIndex(Predicate(T))</a>	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 <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">FindIndex(Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that extends from the specified index to the last element. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">FindIndex(Int32, Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that starts at the specified index and contains the specified number of elements. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">FindLast</a>	Searches for an element that matches the conditions defined by the specified predicate, and returns the last occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">FindLastIndex(Predicate(T))</a>	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 <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">FindLastIndex(Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that extends from the first element to the specified index. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">FindLastIndex(Int32, Int32, Predicate(T))</a>	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 <a href="#">List(T)</a> that contains the specified number of elements and ends at the specified index. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">ForEach</a>	Performs the specified action on each element of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">GetEnumerator</a>	Returns an enumerator that iterates through the <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)

 <a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
 <a href="#">GetRange</a>	Creates a shallow copy of a range of elements in the source <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
 <a href="#">IndexOf(T)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">IndexOf(T, Int32)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the <a href="#">List(T)</a> that extends from the specified index to the last element. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">IndexOf(T, Int32, Int32)</a>	Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the <a href="#">List(T)</a> that starts at the specified index and contains the specified number of elements. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">Insert</a>	Inserts an element into the <a href="#">List(T)</a> at the specified index. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">InsertRange</a>	Inserts the elements of a collection into the <a href="#">List(T)</a> at the specified index. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">LastIndexOf(T)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">LastIndexOf(T, Int32)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the <a href="#">List(T)</a> that extends from the first element to the specified index. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">LastIndexOf(T, Int32, Int32)</a>	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the <a href="#">List(T)</a> that contains the specified number of elements and ends at the specified index. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">Remove</a>	Removes the first occurrence of a specific object from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">RemoveAll</a>	Removes all the elements that match the conditions defined by the specified predicate. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">RemoveAt</a>	Removes the element at the specified index of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">RemoveRange</a>	Removes a range of elements from the <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">Reverse()</a>	Reverses the order of the elements in the entire <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)

 <a href="#">Reverse(Int32, Int32)</a>	Reverses the order of the elements in the specified range. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">Sort()</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the default comparer. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">Sort(IComparer(T))</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the specified comparer. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">Sort(Comparison(T))</a>	Sorts the elements in the entire <a href="#">List(T)</a> using the specified <a href="#">Comparison(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">Sort(Int32, Int32, IComparer(T))</a>	Sorts the elements in a range of elements in <a href="#">List(T)</a> using the specified comparer. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">ToArray</a>	Copies the elements of the <a href="#">List(T)</a> to a new array. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
 <a href="#">TrimExcess</a>	Sets the capacity to the actual number of elements in the <a href="#">List(T)</a> , if that number is less than a threshold value. (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">TrueForAll</a>	Determines whether every element in the <a href="#">List(T)</a> matches the conditions defined by the specified predicate. (Inherited from <a href="#">List(ValidationResult)</a> .)

## Extension Methods

	Name	Description
 <a href="#">SaveAsCsv(ValidationResult)</a>	Saves the list as CSV. (Defined by <a href="#">ListExtension</a> .)	

## See Also

[ValidationResultList Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

## ValidationResultList.Add Method

### Overload List

Name	Description
 <a href="#">Add(T)</a>	Adds an object to the end of the <a href="#">List(T)</a> . (Inherited from <a href="#">List(ValidationResult)</a> .)
 <a href="#">Add(Servity, String, Object, String, Object)</a>	Adds the specified validation.

### See Also

[ValidationResultList Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

## ValidationResultList.Add Method (Servity, String, Object, String, Object)

Adds the specified validation.

**Namespace:** [SIGENCEScenarioTool.Models.Validation](#)

**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](#)

The s servity.

*strMessage*

Type: [System.String](#)

The string message.

*oSource*

Type: [System.Object](#)

The o source.

*strPropertyName*

Type: [System.String](#)

Name of the string property.

*oValue*

Type: [System.Object](#)

The o value.

#### See Also

[ValidationResultList Class](#)

[Add Overload](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

## SIGENCEScenarioTool.Tools Namespace

### Classes

Class	Description
 <a href="#">Blink</a>	
 <a href="#">GeoHelper</a>	
 <a href="#">MB</a>	Helper For A MessageBox.
 <a href="#">PythonSyntaxModeFileProvider</a>	
 <a href="#">Speech</a>	Klasse zum Ausgeben von Text in Sprache mittels Microsoft SAM.
 <a href="#">Tool</a>	Klasse mit statischen Standalonefunktionen.
 <a href="#">Windows</a>	

### Enumerations

	Enumeration	Description
 <a href="#">GeoTag</a>		
 <a href="#">Highway</a>		

## Blink Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Tools.Blink

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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
	<a href="#">FadeWhiteToBlack</a>	Fades the white to black.
	<a href="#">Off</a>	Offs the LED.
	<a href="#">On</a>	Ons the LED.
	<a href="#">SetColor(Color)</a>	Sets the color.
	<a href="#">SetColor(Int32, Int32, Int32)</a>	Sets the color.
	<a href="#">Show</a>	Shows the specified number of time.
	<a href="#">Test</a>	Tests this instance.

### See Also

[SIGENCEScenarioTool.Tools Namespace](#)

## Blink.Blink Methods

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

### Methods

	Name	Description
 	<a href="#">FadeWhiteToBlack</a>	Fades the white to black.
 	<a href="#">Off</a>	Offs the LED.
 	<a href="#">On</a>	Ons the LED.
 	<a href="#">SetColor(Color)</a>	Sets the color.
 	<a href="#">SetColor(Int32, Int32, Int32)</a>	Sets the color.
 	<a href="#">Show</a>	Shows the specified number of time.
 	<a href="#">Test</a>	Tests this instance.

### See Also

[Blink Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Blink.FadeWhiteToBlack Method

Fades the white to black.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public static void FadeWhiteToBlack()
```

### See Also

[Blink Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Blink.Off Method

Offs the LED.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public static void Off()
```

### See Also

[Blink Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Blink.On Method

Ons the LED.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public static void On()
```

### See Also

[Blink Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## BlinkSetColor Method

### Overload List

	<b>Name</b>	<b>Description</b>
 <b>S</b>	<a href="#">SetColor(Color)</a>	Sets the color.
 <b>S</b>	<a href="#">SetColor(Int32, Int32, Int32)</a>	Sets the color.

### See Also

[Blink Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## BlinkSetColor Method (Color)

Sets the color.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

The c.

### See Also

[Blink Class](#)

[SetColor Overload](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## BlinkSetColor Method (Int32, Int32, Int32)

Sets the color.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

The i r.

*iG*

Type: [System.Int32](#)

The i g.

*iB*

Type: [System.Int32](#)

The i b.

### See Also

[Blink Class](#)

[SetColor Overload](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Blink.Show Method

Shows the specified number of time.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

The number of time.

*numberofmillisecondon*

Type: [System.UInt16](#)

The number of millisecond on.

*numberofmillisecondoff*

Type: [System.UInt16](#)

The number of millisecond off.

*c*

Type: [System.Windows.Media.Color](#)

The c.

### See Also

[Blink Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Blink.Test Method

Tests this instance.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public static void Test()
```

### See Also

[Blink Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## GeoHelper Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Tools.GeoHelper

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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
	<a href="#">CoordinateToPointLatLng</a>	
	<a href="#">CreatePolygon</a>	
	<a href="#">GeometryToString</a>	
	<a href="#">StringToGeometry</a>	

### Fields

	Name	Description
	<a href="#">GERMANY_CENTERPOINT</a>	

### See Also

[SIGENCEScenarioTool.Tools Namespace](#)

## GeoHelper.GeoHelper Methods

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

### Methods

	Name	Description
	<a href="#">CoordinateToPointLatLng</a>	
	<a href="#">CreatePolygon</a>	
	<a href="#">GeometryToString</a>	
	<a href="#">StringToGeometry</a>	

### See Also

[GeoHelper Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## GeoHelper.CoordinateToPointLatLng Method

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## GeoHelper.CreatePolygon Method

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## GeoHelper.GeometryToString Method

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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\*\*](#)

### See Also

[GeoHelper Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## GeoHelper.StringToGeometry Method

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

#### Return Value

Type: **IGeometry**

### See Also

[GeoHelper Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## GeoHelper.GeoHelper Fields

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

### Fields

	Name	Description
 <b>S</b>	<a href="#">GERMANY_CENTERPOINT</a>	

### See Also

[GeoHelper Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## GeoHelper.GERMANY\_CENTERPOINT Field

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## GeoTag Enumeration

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public enum GeoTag
```

### Members

Member name	Value	Description
<b>Aeroway</b>	0	
<b>Amenity</b>	1	
<b>Craft</b>	2	
<b>Emergency</b>	3	
<b>Leisure</b>	4	
<b>Man_Made</b>	5	
<b>Military</b>	6	
<b>Place</b>	7	
<b>Power</b>	8	
<b>Shop</b>	9	
<b>Vending</b>	10	

### See Also

[SIGENCEScenarioTool.Tools Namespace](#)

## Highway Enumeration

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

C#

```
public enum Highway
```

### Members

Member name	Value	Description
<b>Motorway</b>	0	Autobahn <a href="https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dmotorway">https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dmotorway</a>
<b>Trunk</b>	1	Autobahnähnliche Straße <a href="https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dtrunk">https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dtrunk</a>
<b>Primary</b>	2	Bundesstraße <a href="https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dprimary">https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dprimary</a>
<b>Secondary</b>	3	Landes-, (Staats-,) oder sehr gut ausgebauter Kreisstraße <a href="https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dsecondary">https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dsecondary</a>
<b>Tertiary</b>	4	Kreisstraße, sehr gut ausgebauter Gemeindeverbindungsstraße <a href="https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dtertiary">https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dtertiary</a>
<b>Unclassified</b>	5	Öffentlich befahrbare Nebenstraßen mit einfachstem Ausbauzustand, typischerweise keine Mittellinie <a href="https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dunclassified">https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dunclassified</a>
<b>Residential</b>	6	Straße an und in Wohngebieten, die keiner anderen Straßenklasse angehört (unclassified, tertiary, secondary, primary) <a href="https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dresidential">https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dresidential</a>
<b>Service</b>	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. <a href="https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dservice">https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dservice</a>
<b>Motorway_Link</b>	8	<a href="https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dmotorway_link">https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dmotorway_link</a>
<b>Trunk_Link</b>	9	<a href="https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dtrunk_link">https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dtrunk_link</a>
<b>Primary_Link</b>	10	<a href="https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dprimary_link">https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dprimary_link</a>
<b>Secondary_Link</b>	11	<a href="https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dsecondary_link">https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dsecondary_link</a>
<b>Tertiary_Link</b>	12	<a href="https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dtertiary_link">https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dtertiary_link</a>

### See Also

[SIGENCEScenarioTool.Tools Namespace](#)

## MB Class

Helper For A MessageBox.

### Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Tools.MB

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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
 	<a href="#">Error</a>	Errors the specified ex.
 	<a href="#">HereIAm</a>	Heres the i am.
 	<a href="#">Information(String)</a>	Informations the specified string information text.
 	<a href="#">Information(String, Object[])</a>	Informations the specified string format.
 	<a href="#">NotYetImplemented</a>	Nots the yet implemented.
 	<a href="#">Warning(String)</a>	Warnings the specified string information text.
 	<a href="#">Warning(String, Object[])</a>	Warnings the specified string format.

### See Also

[SIGENCEScenarioTool.Tools Namespace](#)

## MB.MB Methods

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

### Methods

	Name	Description
 	<a href="#">Error</a>	Errors the specified ex.
 	<a href="#">HereIAm</a>	Heres the i am.
 	<a href="#">Information(String)</a>	Informations the specified string information text.
 	<a href="#">Information(String, Object[])</a>	Informations the specified string format.
 	<a href="#">NotYetImplemented</a>	Nots the yet implemented.
 	<a href="#">Warning(String)</a>	Warnings the specified string information text.
 	<a href="#">Warning(String, Object[])</a>	Warnings the specified string format.

### See Also

[MB Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## MB.Error Method

Errors the specified ex.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

The ex.

*strCallerName* (Optional)

Type: [System.String](#)

Name of the string caller.

### See Also

[MB Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## MB.HerelAm Method

Heres the i am.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

Name of the string caller.

### See Also

[MB Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## MB.Information Method

### Overload List

	Name	Description
 	<a href="#">Information(String)</a>	Informations the specified string information text.
 	<a href="#">Information(String, Object[])</a>	Informations the specified string format.

### See Also

[MB Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## MB.Information Method (String)

Informations the specified string information text.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

The string information text.

### See Also

[MB Class](#)

[Information Overload](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## MB.Information Method (String, Object[])

Informations the specified string format.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

The string format.

*param*

Type: [System.Object](#)[]

The parameter.

### See Also

[MB Class](#)

[Information Overload](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## MB.NotYetImplemented Method

Notes the yet implemented.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

Name of the string caller.

### See Also

[MB Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## MB.Warning Method

### Overload List

	<b>Name</b>	<b>Description</b>
 <b>S</b>	<a href="#">Warning(String)</a>	Warnings the specified string information text.
 <b>S</b>	<a href="#">Warning(String, Object[])</a>	Warnings the specified string format.

### See Also

[MB Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## MB.Warning Method (String)

Warnings the specified string information text.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

The string information text.

### See Also

[MB Class](#)

[Warning Overload](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## MB.Warning Method (String, Object[])

Warnings the specified string format.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

The string format.

*param*

Type: [System.Object](#)[]

The parameter.

### See Also

[MB Class](#)

[Warning Overload](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## PythonSyntaxModeFileProvider Class

### Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Tools.PythonSyntaxModeFileProvider

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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
	<a href="#">PythonSyntaxModeFileProvider</a>	Initializes a new instance of the <b>PythonSyntaxModeFileProvider</b> class.

### Properties

	Name	Description
	<a href="#">SyntaxModes</a>	Gets the syntax modes.

### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetSyntaxModeFile</a>	Gets the syntax mode file.
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">UpdateSyntaxModeList</a>	Updates the syntax mode list.

### See Also

[SIGENCEScenarioTool.Tools Namespace](#)

## PythonSyntaxModeFileProvider Constructor

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

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public PythonSyntaxModeFileProvider()
```

### See Also

[PythonSyntaxModeFileProvider Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## PythonSyntaxModeFileProvider.PythonSyntaxModeFileProvider

### Properties

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

#### Properties

	Name	Description
	<a href="#">SyntaxModes</a>	Gets the syntax modes.

#### See Also

[PythonSyntaxModeFileProvider Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## PythonSyntaxModeFileProvider.SyntaxModes Property

Gets the syntax modes.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public ICollection<SyntaxMode> SyntaxModes { get; }
```

### Property Value

Type: [ICollection\(SyntaxMode\)](#)

### Implements

**ISyntaxModeFileProvider.SyntaxModes**

### See Also

[PythonSyntaxModeFileProvider Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## PythonSyntaxModeFileProvider.PythonSyntaxModeFileProvider

### Methods

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

#### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetSyntaxModeFile</a>	Gets the syntax mode file.
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">UpdateSyntaxModeList</a>	Updates the syntax mode list.

#### See Also

[PythonSyntaxModeFileProvider Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## PythonSyntaxModeFileProvider.GetSyntaxModeFile Method

Gets the syntax mode file.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

#### Implements

**ISyntaxModeFileProvider.GetSyntaxModeFile(SyntaxMode)**

### See Also

[PythonSyntaxModeFileProvider Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## PythonSyntaxModeFileProvider.UpdateSyntaxModeList Method

Updates the syntax mode list.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Speech Class

Klasse zum Ausgeben von Text in Sprache mittels Microsoft SAM.

### Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Tools.Speech

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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
	<a href="#">Speech</a>	Initializes a new instance of the <b>Speech</b> class.

### Properties

	Name	Description
	<a href="#">State</a>	Gets the state.

### Methods

	Name	Description
	<a href="#">Dispose</a>	Führt anwendungsspezifische Aufgaben durch, die mit der Freigabe, der Zurückgabe oder dem Zurücksetzen von nicht verwalteten Ressourcen zusammenhängen.
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Say</a>	Says the specified string content.
	<a href="#">Speak</a>	Gibt den übergebenen Text aus.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

### See Also

[SIGENCEScenarioTool.Tools Namespace](#)

## Speech Constructor

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

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public Speech()
```

### See Also

[Speech Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Speech.Speech Properties

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

### Properties

	Name	Description
	<a href="#">State</a>	Gets the state.

### See Also

[Speech Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Speech.State Property

Gets the state.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public SynthesizerState State { get; }
```

*Property Value*

Type: [SynthesizerState](#)

The state.

### See Also

[Speech Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Speech.Speech Methods

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

### Methods

	Name	Description
	<a href="#">Dispose</a>	Führt anwendungsspezifische Aufgaben durch, die mit der Freigabe, der Zurückgabe oder dem Zurücksetzen von nicht verwalteten Ressourcen zusammenhängen.
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Say</a>	Says the specified string content.
	<a href="#">Speak</a>	Gibt den übergebenen Text aus.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

### See Also

[Speech Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Speech.Dispose Method

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

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public void Dispose()
```

*Implements*

[IDisposable.Dispose\(\)](#)

### See Also

[Speech Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Speech.Say Method

Says the specified string content.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

Content of the string.

### See Also

[Speech Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Speech.Speak Method

Gibt den übergebenen Text aus.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

Content of the string.

#### See Also

[Speech Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Tool Class

Klasse mit statischen Standalonefunktionen.

### Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Tools.Tool

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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
 <a href="#">ProductName</a>		Gets the name of the product.
 <a href="#">ProductTitle</a>		Gets the product title.
 <a href="#">StartupPath</a>		Gets the startup path.
 <a href="#">Version</a>		Gets the version.

### Methods

	Name	Description
 <a href="#">GetGrad</a>		Gets the grad.
 <a href="#">GetGradMinutesSeconds</a>		Gets the grad minutes seconds.
 <a href="#">GetHumanDistance</a>		Gets the human distance.
 <a href="#">GetHumanSize</a>		Gets the size of the human.
 <a href="#">ReadResourceAsString</a>		Reads the resource as string.

### Fields

	Name	Description
 <a href="#">ALLCHARS</a>		The allchars
 <a href="#">ALLPANGRAMS</a>		The allpangrams
 <a href="#">FOX</a>		The quick brown fox jumps over a lazy dog.
 <a href="#">FRANZ</a>		Franz jagt im komplett verwahrlosten Taxi quer durch Bayern.
 <a href="#">WILFRIED</a>		Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.

 S	<a href="#"><u>XYLOPHONMUSIK</u></a>	Falsches Üben von Xylophonmusik quält jeden größeren Zwerg.
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See Also

[SIGENCEScenarioTool.Tools Namespace](#)

## Tool.Tool Properties

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

### Properties

	Name	Description
 	<a href="#">ProductName</a>	Gets the name of the product.
 	<a href="#">ProductTitle</a>	Gets the product title.
 	<a href="#">StartupPath</a>	Gets the startup path.
 	<a href="#">Version</a>	Gets the version.

### See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Tool.ProductName Property

Gets the name of the product.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static string ProductName { get; }
```

### Property Value

Type: [String](#)

The name of the product.

### See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Tool.ProductTitle Property

Gets the product title.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public static string ProductTitle { get; }
```

### *Property Value*

Type: [String](#)

The product title.

### See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Tool.StartupPath Property

Gets the startup path.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public static string StartupPath { get; }
```

### *Property Value*

Type: [String](#)

The startup path.

### See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Tool.Version Property

Gets the version.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public static string Version { get; }
```

#### *Property Value*

Type: [String](#)

The version.

### See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Tool.Tool Methods

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

### Methods

	Name	Description
 <a href="#">GetGrad</a>		Gets the grad.
 <a href="#">GetGradMinutesSeconds</a>		Gets the grad minutes seconds.
 <a href="#">GetHumanDistance</a>		Gets the human distance.
 <a href="#">GetHumanSize</a>		Gets the size of the human.
 <a href="#">ReadResourceAsString</a>		Reads the resource as string.

### See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Tool.GetGrad Method

Gets the grad.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

The grad.

*minutes*

Type: [System.Double](#)

The minutes.

*seconds*

Type: [System.Double](#)

The seconds.

#### Return Value

Type: [Double](#)

### See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Tool.GetGradMinutesSeconds Method

Gets the grad minutes seconds.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

The grad.

### Return Value

Type: [String](#)

### See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Tool.GetHumanDistance Method

Gets the human distance.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

The l length in meter.

### Return Value

Type: [String](#)

### See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Tool.GetHumanSize Method

Gets the size of the human.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

The l size in bytes.

### Return Value

Type: [String](#)

### See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Tool.ReadResourceAsString Method

Reads the resource as string.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

Name of the string resource.

#### Return Value

Type: [String](#)

### See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Tool.Tool Fields

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

### Fields

	Name	Description
 	<a href="#">ALLCHARS</a>	The allchars
 	<a href="#">ALLPANGRAMS</a>	The allpangrams
 	<a href="#">FOX</a>	The quick brown fox jumps over a lazy dog.
 	<a href="#">FRANZ</a>	Franz jagt im komplett verwahrlosten Taxi quer durch Bayern.
 	<a href="#">WILFRIED</a>	Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
 	<a href="#">XYLOPHONMUSIK</a>	Falsches Üben von Xylophonmusik quält jeden größeren Zwerg.

### See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Tool.ALLCHARS Field

The allchars

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

**C#**

```
public static readonly string ALLCHARS
```

*Field Value*

Type: [String](#)

### See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Tool.ALLPANGRAMS Field

The allpangrams

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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\(String\)](#)

### See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Tool.FOX Field

The quick brown fox jumps over a lazy dog.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static readonly string FOX
```

### *Field Value*

Type: [String](#)

### See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Tool.FRANZ Field

Franz jagt im komplett verwahrlosten Taxi quer durch Bayern.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static readonly string FRANZ
```

### Field Value

Type: [String](#)

### See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Tool.WILFRIED Field

Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

#### C#

```
public static readonly string WILFRIED
```

### Field Value

Type: [String](#)

### See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Tool.XYLOPHONMUSIK Field

Falsches Üben von Xylophonmusik quält jeden größeren Zwerg.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**Assembly:** SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

### Syntax

C#

```
public static readonly string XYLOPHONMUSIK
```

### Field Value

Type: [String](#)

### See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Windows Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Tools.Windows

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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
 	<a href="#">GetWPFScreenshot</a>	Gets the WPF screenshot.
 	<a href="#">OpenWebAdress</a>	Opens the web adress.
 	<a href="#">OpenWithDefaultApplication(FileInfo)</a>	Opens the with default application.
 	<a href="#">OpenWithDefaultApplication(String)</a>	Opens the with default application.
 	<a href="#">SaveWPFScreenshot</a>	Saves the WPF screenshot.

### See Also

[SIGENCEScenarioTool.Tools Namespace](#)

## Windows.Windows Methods

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

### Methods

	<b>Name</b>	<b>Description</b>
 <b>S</b>	<a href="#">GetWPFScreenshot</a>	Gets the WPF screenshot.
 <b>S</b>	<a href="#">OpenWebAdress</a>	Opens the web adress.
 <b>S</b>	<a href="#">OpenWithDefaultApplication(FileInfo)</a>	Opens the with default application.
 <b>S</b>	<a href="#">OpenWithDefaultApplication(String)</a>	Opens the with default application.
 <b>S</b>	<a href="#">SaveWPFScreenshot</a>	Saves the WPF screenshot.

### See Also

[Windows Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Windows.GetWPFScreenshot Method

Gets the WPF screenshot.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

The control.

*iWidth* (Optional)

Type: [System.Nullable\(Int32\)](#)

Width of the i.

*iHeight* (Optional)

Type: [System.Nullable\(Int32\)](#)

Height of the i.

#### Return Value

Type: [BitmapSource](#)

### See Also

[Windows Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Windows.OpenWebAdress Method

Opens the web adress.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

The STR URL.

### Return Value

Type: [Process](#)

### See Also

[Windows Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Windows.OpenWithDefaultApplication Method

### Overload List

	Name	Description
 <b>S</b>	<a href="#">OpenWithDefaultApplication(FileInfo)</a>	Opens the file with default application.
 <b>S</b>	<a href="#">OpenWithDefaultApplication(String)</a>	Opens the file with default application.

### See Also

[Windows Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Windows.OpenWithDefaultApplication Method (FileInfo)

Opens the with default application.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

The fi file.

### Return Value

Type: [Process](#)

### See Also

[Windows Class](#)

[OpenWithDefaultApplication Overload](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Windows.OpenWithDefaultApplication Method (String)

Opens the with default application.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

The STR file.

### Return Value

Type: [Process](#)

### See Also

[Windows Class](#)

[OpenWithDefaultApplication Overload](#)

[SIGENCEScenarioTool.Tools Namespace](#)

## Windows.SaveWPFScreenshot Method

Saves the WPF screenshot.

**Namespace:** [SIGENCEScenarioTool.Tools](#)

**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](#)

The screenshot.

*strOutputFilename*

Type: [System.String](#)

The string output filename.

### See Also

[Windows Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)