



SIGENCE SCENARIO TOOL LIBRARY

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SIGENCEScenarioTool.Database.SQLite Namespace

Classes

	Class	Description
	<u>SQLiteHelper</u>	
	<u>SQLiteMemoryDatabase</u>	

SQLiteHelper Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Database.SQLite.SQLiteHelper

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

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 1.5.0.0 (1.5)

Syntax

C#

```
public static class SQLiteHelper
```

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

Methods

	Name	Description
 	GetDbType	Gets the type of the database.
 	GetNativeType	Gets the type of the native.
 	GetSQLiteColumn	Gets the sq lite column.
 	GetSQLiteParameter	Gets the sq lite parameter.

Fields

	Name	Description
 	TypeMapping	The type mapping

See Also

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

SQLiteHelper.SQLiteHelper Methods

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

Methods

	Name	Description
	GetDbType	Gets the type of the database.
	GetNativeType	Gets the type of the native.
	GetSQLiteColumn	Gets the sq lite column.
	GetSQLiteParameter	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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
 s	TypeMapping	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public sealed class SQLiteMemoryDatabase : IDisposable
```

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

Constructors

	Name	Description
	SQLiteMemoryDatabase	Initializes a new instance of the SQLiteMemoryDatabase class.

Properties

	Name	Description
	Connection	Gets the connection.

Methods

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

	ToString	Returns a string that represents the current object. (Inherited from Object .)
---	--------------------------	--

Operators

	Name	Description
	Implicit(SQLiteMemoryDatabase to SQLiteConnection)	Performs an implicit conversion from SQLiteMemoryDatabase to SQLiteConnection .

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: 1.5.0.0 (1.5)

Syntax

C#

```
public SQLiteMemoryDatabase()
```

See Also

[SQLiteMemoryDatabase Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

[SQLiteMemoryDatabase.SQLiteMemoryDatabase Properties](#)

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

Properties

	Name	Description
	Connection	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: 1.5.0.0 (1.5)

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

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

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

Implements

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

See Also

[SQLiteMemoryDatabase Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

SQLiteMemoryDatabase.Load Method

Overload List

	Name	Description
	Load(FileInfo)	Loads the specified fi.
	Load(String)	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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

	Name	Description
	Save(FileInfo, Boolean, Boolean)	Saves the specified fi.
	Save(String, Boolean, Boolean)	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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
 	Implicit(SQLiteMemoryDatabase to SQLiteConnection)	Performs an implicit conversion from SQLiteMemoryDatabase to SQLiteConnection .

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: 1.5.0.0 (1.5)

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

	Class	Description
	DataTypeBase(T)	
	UnitPrefix	
	UnitPrefixs	

[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: 1.5.0.0 (1.5)

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
	DataTypeBase(T)	Initializes a new instance of the DataTypeBase(T) class.

Properties

	Name	Description
	Value	Gets or sets the value.

Methods

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

 GetType	Gets the Type of the current instance. (Inherited from Object .)
 IsValid	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.
 MemberwiseClone	Creates a shallow copy of the current Object . (Inherited from Object .)
 ToString	Returns a String that represents this instance. (Overrides Object.ToString() .)

Operators

	Name	Description
 Implicit(DataTypeBase(T)to T)	Liefert den Wert als den generischen Typ zurück.	

Fields

	Name	Description
 CULTUREINFO	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: 1.5.0.0 (1.5)

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

	Name	Description
	Value	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: 1.5.0.0 (1.5)

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

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

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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
 	Implicit(DataTypeBase(T)to T)	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: 1.5.0.0 (1.5)

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

	Name	Description
 	CULTUREINFO	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public sealed class UnitPrefix
```

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

Constructors

	Name	Description
	UnitPrefix	Initializes a new instance of the UnitPrefix class.

Properties

	Name	Description
	Factor	Gets or sets the factor.
	Name	Gets or sets the name.
	Symbol	Gets or sets the symbol.

Methods

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

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: 1.5.0.0 (1.5)

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 symblo.

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
	Factor	Gets or sets the factor.
	Name	Gets or sets the name.
	Symbol	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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
 Equals	Determines whether the specified object is equal to the current object. (Inherited from Object .)	
 GetHashCode	Serves as the default hash function. (Inherited from Object .)	
 GetType	Gets the Type of the current instance. (Inherited from Object .)	
 ToString	Returns a string that represents the current object. (Inherited from Object .)	

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: 1.5.0.0 (1.5)

Syntax

C#

```
public sealed class UnitPrefixs
```

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

Constructors

	Name	Description
	UnitPrefixs	Initializes a new instance of the UnitPrefixs class

Methods

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

Fields

	Name	Description
	Atto	The atto
	Default	The default
	Exa	The exa
	Femto	The femto
	Giga	The giga
	Kilo	The kilo
	Mega	The mega
	Mikro	The mikro
	Milli	The milli

 <u>Nano</u>	The nano
 <u>Peta</u>	The peta
 <u>Piko</u>	The piko
 <u>Tera</u>	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: 1.5.0.0 (1.5)

Syntax

C#

```
public UnitPrefixs()
```

See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

UnitPrefixs.UnitPrefixs Methods

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

Methods

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

See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

UnitPrefixs.UnitPrefixs Fields

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

Fields

	Name	Description
 s	Atto	The atto
 S	Default	The default
 s	Exa	The exa
 s	Femto	The femto
 s	Giga	The giga
 s	Kilo	The kilo
 s	Mega	The mega
 s	Mikro	The mikro
 s	Milli	The milli
 s	Nano	The nano
 s	Peta	The peta
 s	Piko	The piko
 s	Tera	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public static readonly UnitPrefix Tera
```

Field Value

Type: [UnitPrefix](#)

See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

SIGENCEScenarioTool.Datatypes.Geo Namespace

Classes

	Class	Description
	<u>Altitude</u>	
	<u>GeoNode</u>	
	<u>GeoNodeCollection</u>	
	<u>Latitude</u>	
	<u>Longitude</u>	

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: 1.5.0.0 (1.5)

Syntax

C#

```
public sealed class Altitude : DataTypeBase<int>
```

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

Constructors

	Name	Description
	Altitude	Initializes a new instance of the Altitude class.

Properties

	Name	Description
	Value	Gets or sets the value. (Inherited from DataTypeBase(T) .)

Methods

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

Operators

	Name	Description
	Implicit(Int32 to Altitude)	Performs an implicit conversion from Int32 to Altitude .

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: 1.5.0.0 (1.5)

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
	Value	Gets or sets the value. (Inherited from DataTypeBase(T) .)

See Also

[Altitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

Altitude.Altitude Methods

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

Methods

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

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: 1.5.0.0 (1.5)

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
 	Implicit(Int32 to Altitude)	Performs an implicit conversion from Int32 to Altitude .

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public sealed class GeoNode
```

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

Constructors

	Name	Description
	GeoNode	Initializes a new instance of the GeoNode class

Properties

	Name	Description
	Latitude	Gets or sets the latitude.
	Longitude	Gets or sets the longitude.
	Name	Gets or sets the name.
	NodeId	Gets or sets the node identifier.
	Position	Gets the position.
	Tag	Gets or sets the tag.
	Value	Gets or sets the value.

Methods

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

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: 1.5.0.0 (1.5)

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
	Latitude	Gets or sets the latitude.
	Longitude	Gets or sets the longitude.
	Name	Gets or sets the name.
	NodeId	Gets or sets the node identifier.
	Position	Gets the position.
	Tag	Gets or sets the tag.
	Value	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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
 	Equals	Determines whether the specified object is equal to the current object. (Inherited from Object .)
 	GetHashCode	Serves as the default hash function. (Inherited from Object .)
 	GetType	Gets the Type of the current instance. (Inherited from Object .)
 	ToString	Returns a string that represents the current object. (Inherited from Object .)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public sealed class GeoNodeCollection : ObservableCollection<GeoNode>
```

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

Properties

	Name	Description
	Count	Gets the number of elements actually contained in the Collection(T) . (Inherited from Collection(GeoNode) .)
	Item	Gets or sets the element at the specified index. (Inherited from Collection(GeoNode) .)

Methods

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

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

Events

Name	Description
	CollectionChanged Occurs when an item is added, removed, changed, moved, or the entire list is refreshed. (Inherited from ObservableCollection(GeoNode) .)

See Also

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

`[!System.Collections.ObjectModel.ObservableCollection<SIGENCEScenarioTool.Models.Database.Geo Db.GeoNode>]`

GeoNodeCollection.GeoNodeCollection Properties

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

Properties

	Name	Description
	Count	Gets the number of elements actually contained in the Collection(T) . (Inherited from Collection(GeoNode) .)
	Item	Gets or sets the element at the specified index. (Inherited from Collection(GeoNode) .)

See Also

[GeoNodeCollection Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

GeoNodeCollection.GeoNodeCollection Methods

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

Methods

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

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: 1.5.0.0 (1.5)

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
ArgumentException	The parameter should not be empty! - strDatabaseFilename
FileNotFoundException	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
	CollectionChanged	Occurs when an item is added, removed, changed, moved, or the entire list is refreshed. (Inherited from ObservableCollection(GeoNode) .)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public sealed class Latitude : DataTypeBase<double>
```

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

Constructors

	Name	Description
	Latitude	Initializes a new instance of the Latitude class.

Properties

	Name	Description
	Value	Gets or sets the value. (Inherited from DataTypeBase(T) .)

Methods

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

Operators

	Name	Description
	Implicit(Double to Latitude)	Performs an implicit conversion from Double to Latitude .

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: 1.5.0.0 (1.5)

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
	Value	Gets or sets the value. (Inherited from DataTypeBase(T) .)

See Also

[Latitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

Latitude.Latitude Methods

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

Methods

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

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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

	Name	Description
 	Implicit(Double to Latitude)	Performs an implicit conversion from Double to Latitude .

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public sealed class Longitude : DataTypeBase<double>
```

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

Constructors

	Name	Description
	Longitude	Initializes a new instance of the Longitude class.

Properties

	Name	Description
	Value	Gets or sets the value. (Inherited from DataTypeBase(T) .)

Methods

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

Operators

	Name	Description
	 Implicit(Double to Longitude)	Performs an implicit conversion from Double to Longitude .

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: 1.5.0.0 (1.5)

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
	Value	Gets or sets the value. (Inherited from DataTypeBase(T) .)

See Also

[Longitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

Longitude.Longitude Methods

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

Methods

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

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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
 	Implicit(Double to Longitude)	Performs an implicit conversion from Double to Longitude .

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: 1.5.0.0 (1.5)

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

	Class	Description
	<u>ObservableStringCollection</u>	

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: 1.5.0.0 (1.5)

Syntax

C#

```
public sealed class ObservableStringCollection : ObservableCollection<string>
```

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

Constructors

	Name	Description
	ObservableStringCollection	Initializes a new instance of the ObservableStringCollection class

Properties

	Name	Description
	Count	Gets the number of elements actually contained in the Collection(T) . (Inherited from Collection(String) .)
	Item	Gets or sets the element at the specified index. (Inherited from Collection(String) .)

Methods

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

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

Events

Name	Description
 CollectionChanged	Occurs when an item is added, removed, changed, moved, or the entire list is refreshed. (Inherited from ObservableCollection(String) .)

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: 1.5.0.0 (1.5)

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
	Count	Gets the number of elements actually contained in the Collection(T) . (Inherited from Collection(String) .)
	Item	Gets or sets the element at the specified index. (Inherited from Collection(String) .)

See Also

[ObservableStringCollection Class](#)

[SIGENCEScenarioTool.Datatypes.Observable Namespace](#)

ObservableStringCollection.ObservableStringCollection Methods

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

Methods

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

See Also

[ObservableStringCollection Class](#)

[SIGENCEScenarioTool.Datatypes.Observable Namespace](#)

ObservableStringCollection.ObservableStringCollection Events

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

Events

	Name	Description
	CollectionChanged	Occurs when an item is added, removed, changed, moved, or the entire list is refreshed. (Inherited from ObservableCollection(String) .)

See Also

[ObservableStringCollection Class](#)

[SIGENCEScenarioTool.Datatypes.Observable Namespace](#)

SIGENCEScenarioTool.Datatypes.Physically Namespace

Classes

	Class	Description
	<u>Bandwidth</u>	
	<u>Frequency</u>	
	<u>Gain</u>	
	<u>SignalToNoiseRatio</u>	

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: 1.5.0.0 (1.5)

Syntax

C#

```
public sealed class Bandwidth : DataTypeBase<double>
```

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

Constructors

	Name	Description
	Bandwidth	Initializes a new instance of the Bandwidth class.

Properties

	Name	Description
	Value	Gets or sets the value. (Inherited from DataTypeBase(T) .)

Methods

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

Operators

	Name	Description
	Implicit(Double to Bandwidth)	Performs an implicit conversion from Double to Bandwidth .

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: 1.5.0.0 (1.5)

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
	Value	Gets or sets the value. (Inherited from DataTypeBase(T) .)

See Also

[Bandwidth Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

Bandwidth.Bandwidth Methods

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

Methods

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

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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

	Name	Description
 	Implicit(Double to Bandwidth)	Performs an implicit conversion from Double to Bandwidth .

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public sealed class Frequency : DataTypeBase<double>
```

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

Constructors

	Name	Description
	Frequency	Initializes a new instance of the Frequency class.

Properties

	Name	Description
	Value	Gets or sets the value. (Inherited from DataTypeBase(T) .)

Methods

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

Operators

	Name	Description
	Implicit(Double to Frequency)	Performs an implicit conversion from Double to Frequency .

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: 1.5.0.0 (1.5)

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
	Value	Gets or sets the value. (Inherited from DataTypeBase(T) .)

See Also

[Frequency Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

Frequency.Frequency Methods

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

Methods

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

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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

	Name	Description
 S	Implicit(Double to Frequency)	Performs an implicit conversion from Double to Frequency .

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public sealed class Gain : DataTypeBase<double>
```

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

Constructors

	Name	Description
	Gain	Initializes a new instance of the Gain class.

Properties

	Name	Description
	Value	Gets or sets the value. (Inherited from DataTypeBase(T) .)

Methods

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

Operators

	Name	Description
	Implicit(Double to Gain)	Performs an implicit conversion from Double to Gain .

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: 1.5.0.0 (1.5)

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
	Value	Gets or sets the value. (Inherited from DataTypeBase(T) .)

See Also

[Gain Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

Gain.Gain Methods

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

Methods

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

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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
 S	Implicit(Double to Gain)	Performs an implicit conversion from Double to Gain .

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public sealed class SignalToNoiseRatio : DataTypeBase<double>
```

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

Constructors

	Name	Description
	SignalToNoiseRatio	Initializes a new instance of the SignalToNoiseRatio class.

Properties

	Name	Description
	Value	Gets or sets the value. (Inherited from DataTypeBase(T) .)

Methods

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

Operators

	Name	Description
	Implicit(Double to SignalToNoiseRatio)	Performs an implicit conversion from Double to SignalToNoiseRatio .

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: 1.5.0.0 (1.5)

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
	Value	Gets or sets the value. (Inherited from DataTypeBase(T) .)

See Also

[SignalToNoiseRatio Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

SignalToNoiseRatio.SignalToNoiseRatio Methods

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

Methods

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

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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
 	Implicit(Double to SignalToNoiseRatio)	Performs an implicit conversion from Double to SignalToNoiseRatio .

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: 1.5.0.0 (1.5)

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

	Class	Description
	<u>IntegerList</u>	
	<u>StringList</u>	

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: 1.5.0.0 (1.5)

Syntax

C#

```
public sealed class IntegerList : List<int>
```

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

Constructors

	Name	Description
	IntegerList()	Initializes a new instance of the IntegerList class.
	IntegerList(IEnumerable(Int32))	Initializes a new instance of the IntegerList class.
	IntegerList(Int32)	Initializes a new instance of the IntegerList class.

Properties

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

Methods

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

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

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

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

Operators

	Name	Description
	Multiply	Implements the operator *.

Extension Methods

	Name	Description
	SaveAsCsv(Int32)	Saves the list as CSV. (Defined by ListExtension .)

See Also

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

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

IntegerList Constructor

Overload List

	Name	Description
	IntegerList()	Initializes a new instance of the IntegerList class.
	IntegerList(IEnumerable<Int32>)	Initializes a new instance of the IntegerList class.
	IntegerList(Int32)	Initializes a new instance of the IntegerList 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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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
	Capacity	Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from List(Int32) .)
	Count	Gets the number of elements contained in the List(T) . (Inherited from List(Int32) .)
	Item	Gets or sets the element at the specified index. (Inherited from List(Int32) .)

See Also

[IntegerList Class](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

IntegerList.IntegerList Methods

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

Methods

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

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

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

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

Extension Methods

	Name	Description
 SaveAsCsv(Int32)	Saves the list as CSV. (Defined by ListExtension .)	

See Also

[IntegerList Class](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

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

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

Operators

	Name	Description
 Multiply	Multiply	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public sealed class StringList : List<string>
```

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

Constructors

	Name	Description
≡	StringList()	Initializes a new instance of the StringList class.
≡	StringList(IEnumerable(String))	Initializes a new instance of the StringList class.
≡	StringList(Int32)	Initializes a new instance of the StringList class.
≡	StringList(String[])	Initializes a new instance of the StringList class.

Properties

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

Methods

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

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

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

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

Operators

	Name	Description
 	Implicit(StringList toString[])	Performs an implicit conversion from StringList to [!:System.String[]] .

Extension Methods

	Name	Description
	SaveAsCsv(String)	Saves the list as CSV. (Defined by ListExtension .)

See Also

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

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

StringList Constructor

Overload List

	Name	Description
≡	StringList()	Initializes a new instance of the StringList class.
≡	StringList(IEnumerable<String>)	Initializes a new instance of the StringList class.
≡	StringList(Int32)	Initializes a new instance of the StringList class.
≡	StringList(String[])	Initializes a new instance of the StringList 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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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
	Capacity	Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from List(String) .)
	Count	Gets the number of elements contained in the List(T) . (Inherited from List(String) .)
	Item	Gets or sets the element at the specified index. (Inherited from List(String) .)

See Also

[StringList Class](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

StringList.StringList Methods

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

Methods

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

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

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

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

Extension Methods

	Name	Description
 SaveAsCsv(String)	Saves the list as CSV. (Defined by ListExtension .)	

See Also

[StringList Class](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

StringList.StringList Type Conversions

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

Operators

	Name	Description
 	Implicit(StringList toString[])	Performs an implicit conversion from StringList 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: 1.5.0.0 (1.5)

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

ColorExtension Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.ColorExtension

Namespace: [SIGENCEScenarioTool.Extensions](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 1.5.0.0 (1.5)

Syntax

C#

```
public static class ColorExtension
```

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

Methods

	Name	Description
	WithAlpha	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
	WithAlpha	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public static class DateTimeExtension
```

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

Methods

	Name	Description
 	DaysInMonth	Dayes the in month.
 	Fmt_DD_MM_YYYY	dd.MM.yyyy
 	Fmt_DD_MM_YYYY_HH_MM	
 	Fmt_DD_MM_YYYY_HH_MM_SS	dd.MM.yyyy, HH:mm:ss
 	Fmt_HH_MM_SS	HH:mm:ss
 	Fmt_YYYYMMDD	yyyyMMdd
 	Fmt_YYYYMMDD_HHMMSS	yyyyMMdd_HHmmss
 	Fmt_YYYYMMDD_HHMMSSFFF	yyyyMMdd_HHmmssfff
 	Fmt_YYYYMMDDHHMMSS	yyyyMMddHHmmss

See Also

[SIGENCEScenarioTool.Extensions Namespace](#)

DateTimeExtension.DateTimeExtension Methods

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

Methods

	Name	Description
 	DaysInMonth	Dayes the in month.
 	Fmt_DD_MM_YYYY	dd.MM.yyyy
 	Fmt_DD_MM_YYYY_HH_MM	
 	Fmt_DD_MM_YYYY_HH_MM_SS	dd.MM.yyyy, HH:mm:ss
 	Fmt_HH_MM_SS	HH:mm:ss
 	Fmt_YYYYMMDD	yyyyMMdd
 	Fmt_YYYYMMDD_HHMMSS	yyyyMMdd_HHmmss
 	Fmt_YYYYMMDD_HHMMSSFFF	yyyyMMdd_HHmmssfff
 	Fmt_YYYYMMDDHHMMSS	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public static class DbCommandExtension
```

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

Methods

	Name	Description
 	ResetParameters	Set alle Parameters to NULL.
 	SetNullableParamter(DbCommand, Int32, Object)	Sets the nullable paramter.
 	SetNullableParamter(DbCommand, String, Object)	Adds the nullable paramter.

See Also

[SIGENCEScenarioTool.Extensions Namespace](#)

DbCommandExtension.DbCommandExtension Methods

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

Methods

	Name	Description
 S	ResetParameters	Set alle Parameters to NULL.
 S	SetNullableParamter(DbCommand, Int32, Object)	Sets the nullable paramter.
 S	SetNullableParamter(DbCommand, String, Object)	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: 1.5.0.0 (1.5)

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	SetNullableParamter(DbCommand, Int32, Object)	Sets the nullable paramter.
 S	SetNullableParamter(DbCommand, String, Object)	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public static class DictionaryExtension
```

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

Methods

	Name	Description
 	ForEach(TKey, TValue)(Dictionary(TKey, TValue), Action(TKey, TValue))	Fors the each.
 	ForEach(TKey, TValue)(SortedDictionary(TKey, TValue), Action(TKey, TValue))	Fors the each.
 	ToString(TKey, TValue)	Returns a String that represents this instance.

See Also

[SIGENCEScenarioTool.Extensions Namespace](#)

DictionaryExtension.DictionaryExtension Methods

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

Methods

	Name	Description
 	ForEach(TKey, TValue)(Dictionary(TKey, TValue), Action(TKey, TValue))	Fors the each.
 	ForEach(TKey, TValue)(SortedDictionary(TKey, TValue), Action(TKey, TValue))	Fors the each.
 	ToString(TKey, TValue)	Returns a String that represents this instance.

See Also

[DictionaryExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

DictionaryExtension.ForEach Method

Overload List

	Name	Description
 ForEach(TKey, TValue)(Dictionary(TKey, TValue), Action(TKey, TValue))		Fors the each.
 ForEach(TKey, TValue)(SortedDictionary(TKey, TValue), Action(TKey, TValue))		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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public static class FileInfoExtension
```

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

Methods

	Name	Description
 	CopyTo(FileInfo, DirectoryInfo)	Copies to file to a other directory.
 	CopyTo(FileInfo, DirectoryInfo, Boolean)	Copies to.
 	GetFilenameWithoutExtension	Gets the filename without extension.
 	GetFileSize	Gets the size of the file.
 	MoveTo	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
 	CopyTo(FileInfo, DirectoryInfo)	Copies to file to a other directory.
 	CopyTo(FileInfo, DirectoryInfo, Boolean)	Copies to.
 	GetFilenameWithoutExtension	Gets the filename without extension.
 	GetFileSize	Gets the size of the file.
 	MoveTo	Moves to file to a other directory.

See Also

[FileInfoExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

FileInfoExtension.CopyTo Method

Overload List

	Name	Description
 S	CopyTo(FileInfo, DirectoryInfo)	Copies to file to a other directory.
 S	CopyTo(FileInfo, DirectoryInfo, Boolean)	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public static class IDataReaderExtension
```

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

Methods

	Name	Description
	GetDateTimeOrNull	Gets the date time or null.
	GetGeometryFromWKB	
	GetInt32OrNull	Gets the int32 or null.
	GetInt64OrNull	Gets the int64 or null.
	GetLineStringFromWKB	
	GetMultiPolygonFromWKB	
	GetPointFromWKB	
	GetPolygonFromWKB	
	GetStringOrNull	Gets the string or null.

See Also

[SIGENCEScenarioTool.Extensions Namespace](#)

IDataReaderExtension.IDataReaderExtension Methods

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

Methods

	Name	Description
	GetDateTimeOrNull	Gets the date time or null.
	GetGeometryFromWKB	
	GetInt32OrNull	Gets the int32 or null.
	GetInt64OrNull	Gets the int64 or null.
	GetLineStringFromWKB	
	GetMultiPolygonFromWKB	
	GetPointFromWKB	
	GetPolygonFromWKB	
	GetStringOrNull	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public static class IDbConnectionExtension
```

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

Methods

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

See Also

[SIGENCEScenarioTool.Extensions Namespace](#)

IDbConnectionExtension.IDbConnectionExtension Methods

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

Methods

	Name	Description
 	CloseIfOpen	Closes if open.
 	ExecuteNonQuery(IDbConnection, String, Object[])	Exeutes the non query.
 	ExecuteNonQuery(IDbConnection, Int32, Boolean, String, Object[])	Executes the non query.
 	ExecuteScalar(IDbConnection, String, Object[])	Executes the scalar.
 	ExecuteScalar(IDbConnection, Int32, String, Object[])	Executes the scalar.
 	GetDictionary(T1, T2)	Gets the dictionary.
 	GetSortedDictionary(T1, T2)	Liefert das Ergebnis eines Statements als SortedDictionary zurück.
 	SaveAsCSV	Exports the CSV.
 	Select(IDbConnection, String)	Selects the specified db connection.
 	Select(IDbConnection, String, Object[])	Selects the specified db connection.
 	SelectAsDataTable	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: 1.5.0.0 (1.5)

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

	Name	Description
 S	ExecuteNonQuery(IDbConnection, String, Object[])	Exceutes the non query.
 S	ExecuteNonQuery(IDbConnection, Int32, Boolean, String, Object[])	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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	ExecuteScalar(IDbConnection, String, Object[])	Executes the scalar.
 S	ExecuteScalar(IDbConnection, Int32, String, Object[])	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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	Select(IDbConnection, String)	Selects the specified db connection.
 S	Select(IDbConnection, String, Object[])	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public static class ListExtension
```

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

Methods

	Name	Description
	SaveAsCsv(T)	Saves the list as CSV.
	SaveAsXml(T)	Saves the list as XML.

See Also

[SIGENCEScenarioTool.Extensions Namespace](#)

ListExtension.ListExtension Methods

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

Methods

	Name	Description
	SaveAsCsv(T)	Saves the list as CSV.
	SaveAsXml(T)	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: 1.5.0.0 (1.5)

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
ArgumentException	Die Liste darf nicht leer sein! - <i>lValues</i> or Der Ausgabedateiname darf nicht leer sein! - <i>strOutputFilename</i>
ArgumentException	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public static class RandomExtension
```

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

Methods

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

 	NextSalt	Nexts the salt.
 	NextString	Nexts the string.
 	NextUInt	Der Vollständigkeit wegen.
 	NextULong	Nexts the u long.

See Also

[SIGENCEScenarioTool.Extensions Namespace](#)

RandomExtension.RandomExtension Methods

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

Methods

	Name	Description
 	NextAutoKennzeichen	Nexts the automatic kennzeichen.
 	NextBool	Liefert einen Zufalls Boolischen Wert zurück.
 	NextColor	Returns the next Color.
 	NextDateTime(Random, DateTimeKind)	Nexts the date time.
 	NextDateTime(Random, DateTime, DateTimeKind)	Nexts the date time.
 	NextEnum(Random, Type)	Nexts the enum.
 	NextEnum(T)(Random)	Liefert einen zufälligen Enumeration Wert zu einer Enumeration zurück.
 	NextInt	Der Vollständigkeit wegen.
 	NextLong	Nexts the long.
 	NextObject(T)(Random, ICollection(T))	Nexts the object.
 	NextObject(T)(Random, IList(T))	Nexts the object.
 	NextSalt	Nexts the salt.
 	NextString	Nexts the string.
 	NextUInt	Der Vollständigkeit wegen.
 	NextULong	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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	NextDateTime(Random, DateTimeKind)	Nexts the date time.
 S	NextDateTime(Random, DateTime, DateTime, DateTimeKind)	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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
 	NextEnum(T)(Random)	Liefert einen zufälligen Enumeration Wert zu einer Enumeration zurück.
 	NextEnum(Random, Type)	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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	NextObject(T)(Random, ICollection(T))	Nexts the object.
 S	NextObject(T)(Random, IList(T))	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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

Nexts the string.

Namespace: [SIGENCEScenarioTool.Extensions](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public static class SQLiteExtension
```

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

Methods

	Name	Description
	Analyze	Analyzes the specified database connection.
	DropTable	Drops the table.
	GetLastPrimarykey	Gets the last primarykey.
	GetTableNames	Gets the table names.
	GetViewNames	Gets the view names.
	PrepareInsertStatement	Prepares the insert statement.
	Reindex	Reindexes the specified database connection.
	TableExists	Tables the exists.
	Truncate	Truncates the specified string tablename.
	Vacuum	Vacuums the specified database connection.

See Also

[SIGENCEScenarioTool.Extensions Namespace](#)

SQLiteExtension.SQLiteExtension Methods

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

Methods

	Name	Description
 S	Analyze	Analyzes the specified database connection.
 S	DropTable	Drops the table.
 S	GetLastPrimarykey	Gets the last primarykey.
 S	GetTableNames	Gets the table names.
 S	GetViewNames	Gets the view names.
 S	PrepareInsertStatement	Prepares the insert statement.
 S	Reindex	Reindexes the specified database connection.
 S	TableExists	Tables the exists.
 S	Truncate	Truncates the specified string tablename.
 S	Vacuum	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public static class StringBuilderExtension
```

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

Methods

	Name	Description
 S	AppendLine	Appends the line.

See Also

[SIGENCEScenarioTool.Extensions Namespace](#)

StringBuilderExtension.StringBuilderExtension Methods

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

Methods

	Name	Description
	AppendLine	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public static class StringExtension
```

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

Methods

	Name	Description
 	Capitalize	Capitalizes the specified string content.
 	CapitalizeOnlyFirstLetter	Capitalizes the only first letter.
 	EqualsIgnoreCase	Vergleicht zwei String wobei nicht zwischen Groß- und Kleinschreibung unterschieden wird.
 	IsEmpty	Liefert zurück ob ein String null oder dessen Länge 0 ist.
 	IsNotEmpty	Liefert zurück ob ein String nicht null oder dessen Länge > 0 ist.
 	RemoveQuotation	Removes the quotation.
 	ReplaceHtml	Replaces the HTML.
 	ToColor	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
	Capitalize	Capitalizes the specified string content.
	CapitalizeOnlyFirstLetter	Capitalizes the only first letter.
	EqualsIgnoreCase	Vergleicht zwei String wobei nicht zwischen Groß- und Kleinschreibung unterschieden wird.
	IsEmpty	Liefert zurück ob ein String null oder dessen Länge 0 ist.
	IsNotEmpty	Liefert zurück ob ein String nicht null oder dessen Länge > 0 ist.
	RemoveQuotation	Removes the quotation.
	ReplaceHtml	Replaces the HTML.
	ToColor	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public static class TimeSpanExtension
```

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

Methods

	Name	Description
 	ToHHMMSSString	To the HHMMSS string.
 	.ToShortString	Returns a String that represents this instance.

See Also

[SIGENCEScenarioTool.Extensions Namespace](#)

TimeSpanExtension.TimeSpanExtension Methods

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

Methods

	Name	Description
	ToHHMMSSString	To the HHMMSS string.
	ToShortString	Returns a String 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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public static class TypeExtension
```

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

Methods

	Name	Description
 	DerivedFromType	Check if the class is derived from a other class.
 	ImplementsInterface	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
 	DerivedFromType	Check if the class is derived from a other class.
 	ImplementsInterface	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public static class XElementExtension
```

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

Methods

	Name	Description
	GetBitmapSourceFromNode	Gets the bitmap source from node.
	GetBoolAttribute	Gets the bool attribute.
	GetBoolFromNode	Gets the bool from node.
	GetColorFromNode	Gets the color from node.
	GetDateTimeAttribute	Gets the date time attribute.
	GetDateTimeFromNodeUTC	Gets the date time from node UTC.
	GetDirectoryInfoFromNode	Gets the directory information from node.
	GetDoubleAttribute	Gets the double attribute.
	GetDoubleFromNode	Gets the double from node.
	GetDoubleFromNodeComma	Gets the double from node comma.
	GetDoubleFromNodePoint	Gets the double from node point.
	GetEnumFromNode(T)	Gets the enum from node.

 	GetFileInfoFromNode	Gets the file information from node.
		
 	GetGuidFromNode	Gets the unique identifier from node.
		
 	GetInt32Attribute	Gets the int32 attribute.
		
 	GetInt32FromNode	Gets the int32 from node.
		
 	GetInt64Attribute	Gets the int64 attribute.
		
 	GetLongFromNode	Gets the long from node.
		
 	GetProperty(T)	Gets the property.
		
 	GetSingleAttribute	Gets the single attribute.
		
 	GetSingleFromNode	Gets the single from node.
		
 	GetSingleFromNodeComma	Gets the single from node comma.
		
 	GetSingleFromNodePoint	Gets the single from node point.
		
 	GetStringAttribute	Gets the string attribute.
		
 	GetStringFromCData	Liefert den ersten CData Eintrag des Knotens wenn einer vorhanden ist.
		
 	GetStringFromNode(XElement, String)	Gets the string from node.
		
 	GetStringFromNode(XElement, String, String)	Gets the string from node.
		
	GetUInt32Attribute	Gets the u int32 attribute.
	GetUInt32FromNode	Gets the u int32 from node.
	GetXElement	Gets the x element.
	SaveDefault	Speichert einen XML Baum mit den Standardoptionen.
	ToDefaultString	To the default string.

See Also

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.XElementExtension Methods

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

Methods

	Name	Description
 	GetBitmapSourceFromNode	Gets the bitmap source from node.
		
 	GetBoolAttribute	Gets the bool attribute.
		
 	GetBoolFromNode	Gets the bool from node.
		
 	GetColorFromNode	Gets the color from node.
		
 	GetDateTimeAttribute	Gets the date time attribute.
		
 	GetDateTimeFromNodeUTC	Gets the date time from node UTC.
		
 	GetDirectoryInfoFromNode	Gets the directory information from node.
		
 	GetDoubleAttribute	Gets the double attribute.
		
 	GetDoubleFromNode	Gets the double from node.
		
 	GetDoubleFromNodeComma	Gets the double from node comma.
		
 	GetDoubleFromNodePoint	Gets the double from node point.
		
 	GetEnumFromNode(T)	Gets the enum from node.
		
 	GetFileInfoFromNode	Gets the file information from node.
		
 	GetGuidFromNode	Gets the unique identifier from node.
		
 	GetInt32Attribute	Gets the int32 attribute.
		
 	GetInt32FromNode	Gets the int32 from node.
		
 	GetInt64Attribute	Gets the int64 attribute.
		

 	GetLongFromNode	Gets the long from node.
		
 	GetProperty(T)	Gets the property.
		
 	GetSingleAttribute	Gets the single attribute.
		
 	GetSingleFromNode	Gets the single from node.
		
 	GetSingleFromNodeComma	Gets the single from node comma.
		
 	GetSingleFromNodePoint	Gets the single from node point.
		
 	GetStringAttribute	Gets the string attribute.
		
 	GetStringFromCData	Liefert den ersten CData Eintrag des Knotens wenn einer vorhanden ist.
		
 	GetStringFromNode(XElement, String)	Gets the string from node.
		
 	GetStringFromNode(XElement, String, String)	Gets the string from node.
		
 	GetUInt32Attribute	Gets the u int32 attribute.
		
 	GetUInt32FromNode	Gets the u int32 from node.
		
 	GetXElement	Gets the x element.
		
 	SaveDefault	Speichert einen XML Baum mit den Standardoptionen.
		
 	ToDefaultString	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public static Nullable<Guid> GetGuidIdFromNode (
    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\(Guid\)](#)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public static Nullable<long> GetLongFromNode (
    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: 1.5.0.0 (1.5)

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
NotSupportedException	

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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
 S	GetStringFromNode(XElement, String)	Gets the string from node.
 S	GetStringFromNode(XElement, String, String)	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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

	Interface	Description
	IXmlExport	

IXmlExport Interface

Namespace: [SIGENCEScenarioTool.Interfaces](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 1.5.0.0 (1.5)

Syntax

C#

```
public interface IXmlExport
```

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

Methods

	Name	Description
	ToXml	To the XML.

See Also

[SIGENCEScenarioTool.Interfaces Namespace](#)

IXmlExport.IXmlExport Methods

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

Methods

	Name	Description
	ToXml	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: 1.5.0.0 (1.5)

Syntax

C#

```
XElement ToXml()
```

Return Value

Type: [XElement](#)

See Also

[IXmlExport Interface](#)

[SIGENCEScenarioTool.Interfaces Namespace](#)

SIGENCEScenarioTool.Models Namespace

Classes

Class	Description
 AbstractModelBase	
 GeoLocalizationResult	Represent The Geo Localization Result Of A RFDevice.
 GeoLocalizationResultList	
 RFDevice	Represent A Device Based On A Radio Frequency.
 RFDeviceExtensions	Represent A Device Based On A Radio Frequency.
 RFDeviceList	

Enumerations

	Enumeration	Description
 AntennaType		
 DeviceSource		
 DeviceType		
 RxTxType		
 Servity		

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: 1.5.0.0 (1.5)

Syntax

C#

```
public abstract class AbstractModelBase : INotifyPropertyChanged
```

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

Constructors

	Name	Description
	AbstractModelBase	Initializes a new instance of the AbstractModelBase class

Methods

	Name	Description
	Equals	Determines whether the specified object is equal to the current object. (Inherited from Object .)
	Finalize	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from Object .)
	FirePropertyChanged	Fires the property changed.
	GetHashCode	Serves as the default hash function. (Inherited from Object .)
	GetType	Gets the Type of the current instance. (Inherited from Object .)
	MemberwiseClone	Creates a shallow copy of the current Object . (Inherited from Object .)
	ToString	Returns a string that represents the current object. (Inherited from Object .)

Events

	Name	Description
	PropertyChanged	

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: 1.5.0.0 (1.5)

Syntax

C#

```
protected AbstractModelBase()
```

See Also

[AbstractModelBase Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

AbstractModelBase.AbstractModelBase Methods

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

Methods

	Name	Description
	Equals	Determines whether the specified object is equal to the current object. (Inherited from Object .)
	Finalize	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from Object .)
	FirePropertyChanged	Fires the property changed.
	GetHashCode	Serves as the default hash function. (Inherited from Object .)
	GetType	Gets the Type of the current instance. (Inherited from Object .)
	MemberwiseClone	Creates a shallow copy of the current Object . (Inherited from Object .)
	ToString	Returns a string that represents the current object. (Inherited from Object .)

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: 1.5.0.0 (1.5)

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
	PropertyChanged	

See Also

[AbstractModelBase Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

AbstractModelBase.PropertyChanged Event

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public enum AntennaType
```

Members

	Member name	Value	Description
	OmniDirectional	0	
	OmniLOG30800	1	
	HyperLOG60200	2	
	SimradArgusRadar	3	
	Unknown	255	

See Also

[SIGENCEScenarioTool.Models Namespace](#)

DeviceSource Enumeration

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 1.5.0.0 (1.5)

Syntax

C#

```
public enum DeviceSource
```

Members

Member name	Value	Description
Unknown	0	The source of the device is unknown
User	1	The device was created by the user
Automatic	2	The device was automatically generated
DataImport	3	The device comes from a data import
SimulationResult	4	The device comes from a simulation result

See Also

[SIGENCEScenarioTool.Models Namespace](#)

DeviceType Enumeration

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 1.5.0.0 (1.5)

Syntax

C#

```
public enum DeviceType
```

Members

	Member name	Value	Description
	Unknown	0	Unknown DeviceType
	Receiver	1	Receiver
	Transmitter	2	Transmitter
	Reference	3	Reference Transmitter

See Also

[SIGENCEScenarioTool.Models Namespace](#)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public sealed class GeoLocalizationResult : AbstractModelBase,
    IEquatable<GeoLocalizationResult>, ICloneable, IXmlExport
```

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

Constructors

	Name	Description
	GeoLocalizationResult	Initializes a new instance of the GeoLocalizationResult class

Properties

	Name	Description
	Altitude	The Elevation Of The Localized RF Device Above The Sea Level (Meter).
	Id	The Id Of The Localized RFDevice.
	Latitude	The Latitude Of The Localized RF Device (WGS84).
	LocalizationTime	The Localization Time.
	Longitude	The Longitude Of The Localized RF Device (WGS84).
	PrimaryKey	The Unique PrimarKey For This Result.

Methods

	Name	Description
	Clone	
	Equals(Object)	Determines whether the specified object is equal to the current object. (Inherited from Object .)
	Equals(GeoLocalizationResult)	
	FromXml	

	GetHashCode	Serves as the default hash function. (Inherited from Object .)
	GetType	Gets the Type of the current instance. (Inherited from Object .)
	ToString	Returns a string that represents the current object. (Inherited from Object .)
	ToXml	

Events

	Name	Description
	PropertyChanged	(Inherited from AbstractModelBase .)

Fields

	Name	Description
	ALTITUDE	The PropertyName As ReadOnly String For Altitude.
	DEFAULT_ALTITUDE	The DefaultValue For Altitude.
	DEFAULT_ID	The DefaultValue For Id.
	DEFAULT_LATITUDE	The DefaultValue For Latitude.
	DEFAULT_LOCALIZATIONTIME	The DefaultValue For LocalizationTime.
	DEFAULT_LONGITUDE	The DefaultValue For Longitude.
	DEFAULT_PRIMARYKEY	The DefaultValue For PrimaryKey.
	ID	The PropertyName As ReadOnly String For Id.
	LATITUDE	The PropertyName As ReadOnly String For Latitude.
	LOCALIZATIONTIME	The PropertyName As ReadOnly String For LocalizationTime.
	LONGITUDE	The PropertyName As ReadOnly String For Longitude.
	PRIMARYKEY	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: 1.5.0.0 (1.5)

Syntax

C#

```
public GeoLocalizationResult()
```

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.GeoLocalizationResult Properties

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

Properties

	Name	Description
	Altitude	The Elevation Of The Localized RF Device Above The Sea Level (Meter).
	Id	The Id Of The Localized RFDevice.
	Latitude	The Latitude Of The Localized RF Device (WGS84).
	LocalizationTime	The Localization Time.
	Longitude	The Longitude Of The Localized RF Device (WGS84).
	PrimaryKey	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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
	Clone	
	Equals(Object)	Determines whether the specified object is equal to the current object. (Inherited from Object .)
	Equals(GeoLocalizationResult)	
	FromXml	
	GetHashCode	Serves as the default hash function. (Inherited from Object .)
	GetType	Gets the Type of the current instance. (Inherited from Object .)
	ToString	Returns a string that represents the current object. (Inherited from Object .)
	ToXml	

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.Clone Method

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 1.5.0.0 (1.5)

Syntax

C#

```
public GeoLocalizationResult Clone()
```

Return Value

Type: [GeoLocalizationResult](#)

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.Equals Method

Overload List

	Name	Description
	Equals(Object)	Determines whether the specified object is equal to the current object. (Inherited from Object .)
	Equals(GeoLocalizationResult)	

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.Equals Method (GeoLocalizationResult)

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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
	PropertyChanged	(Inherited from AbstractModelBase .)

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.GeoLocalizationResult Fields

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

Fields

	Name	Description
◆ S	ALTITUDE	The PropertyName As ReadOnly String For Altitude.
◆ S	DEFAULT_ALTITUDE	The DefaultValue For Altitude.
◆ S	DEFAULT_ID	The DefaultValue For Id.
◆ S	DEFAULT_LATITUDE	The DefaultValue For Latitude.
◆ S	DEFAULT_LOCALIZATIONTIME	The DefaultValue For LocalizationTime.
◆ S	DEFAULT_LONGITUDE	The DefaultValue For Longitude.
◆ S	DEFAULT_PRIMARYKEY	The DefaultValue For PrimaryKey.
◆ S	ID	The PropertyName As ReadOnly String For Id.
◆ S	LATITUDE	The PropertyName As ReadOnly String For Latitude.
◆ S	LOCALIZATIONTIME	The PropertyName As ReadOnly String For LocalizationTime.
◆ S	LONGITUDE	The PropertyName As ReadOnly String For Longitude.
◆ S	PRIMARYKEY	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public sealed class GeoLocalizationResultList : List<GeoLocalizationResult>
```

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

Constructors

	Name	Description
	GeoLocalizationResultList()	Initializes a new instance of the GeoLocalizationResultList class.
	GeoLocalizationResultList(Int32)	Initializes a new instance of the GeoLocalizationResultList class.
	GeoLocalizationResultList(IEnumerable(GeoLocalizationResult))	Initializes a new instance of the GeoLocalizationResultList class.

Properties

	Name	Description
	Capacity	Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from List(GeoLocalizationResult) .)
	Count	Gets the number of elements contained in the List(T) . (Inherited from List(GeoLocalizationResult) .)
	Item	Gets or sets the element at the specified index. (Inherited from List(GeoLocalizationResult) .)

Methods

	Name	Description
	Add	Adds an object to the end of the List(T) . (Inherited from List(GeoLocalizationResult) .)
	AddRange	Adds the elements of the specified collection to the end of the List(T) . (Inherited from List(GeoLocalizationResult) .)

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

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

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

 ToString	Returns a string that represents the current object. (Inherited from Object .)
 TrimExcess	Sets the capacity to the actual number of elements in the List(T) , if that number is less than a threshold value. (Inherited from List(GeoLocalizationResult) .)
 TrueForAll	Determines whether every element in the List(T) matches the conditions defined by the specified predicate. (Inherited from List(GeoLocalizationResult) .)

Extension Methods

	Name	Description
 SaveAsCsv(GeoLocalizationResult)	Saves the list as CSV. (Defined by ListExtension .)	
 SaveAsXml(GeoLocalizationResult)	Saves the list as XML. (Defined by ListExtension .)	

See Also

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResultList Constructor

Overload List

Name	Description
 GeoLocalizationResultList()	Initializes a new instance of the GeoLocalizationResultList class.
 GeoLocalizationResultList(Int32)	Initializes a new instance of the GeoLocalizationResultList class.
 GeoLocalizationResultList(IEnumerable(GeoLocalizationResult))	Initializes a new instance of the GeoLocalizationResultList 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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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
	Capacity	Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from List(GeoLocalizationResult) .)
	Count	Gets the number of elements contained in the List(T) . (Inherited from List(GeoLocalizationResult) .)
	Item	Gets or sets the element at the specified index. (Inherited from List(GeoLocalizationResult) .)

See Also

[GeoLocalizationResultList Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResultList.GeoLocalizationResultList Methods

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

Methods

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

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

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

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

Extension Methods

	Name	Description
 SaveAsCsv(GeoLocalizationResult)	Saves the list as CSV. (Defined by ListExtension .)	
 SaveAsXml(GeoLocalizationResult)	Saves the list as XML. (Defined by ListExtension .)	

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: 1.5.0.0 (1.5)

Syntax

C#

```
public sealed class RFDevice : AbstractModelBase,
    IEquatable<RFDevice>, ICloneable, IXmlExport
```

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

Constructors

	Name	Description
	RFDevice	Initializes a new instance of the RFDevice class

Properties

	Name	Description
	Altitude	The Elevation Of The RF Device Above The Sea Level (Meter).
	AntennaType	AntennaType Defines The Antenna Type Used For Transmitter And Receiver Respectively. Note: Currently, Only Omnidirectional Antenna Type Is Available / Supported.
	Bandwidth_Hz	The Bandwith Of The Transmitter.
	CenterFrequency_Hz	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.
	DeviceSource	The Source Of This RF Device.
	Gain_dB	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.
	Id	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.
	Latitude	The Latitude Of The RF Device (WGS84).
	Longitude	The Longitude Of The RF Device (WGS84).
	Name	A Short Describing Display Name For The RF Device.
	Pitch	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.
	PrimaryKey	The Unique PrimarKey For This RF Device.
	Remark	A Comment Or Remark For The RF Device.
	Roll	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.
	RxTxType	For All Receivers (i.e. ID's < 0) This Parameter Defines The Radio Being Used.
	SignalToNoiseRatio_db	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.
	StartTime	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.
	XPos	XPos,YPos,ZPos Define The Transmitter / Receiver Positions In A Local Coordinate System With The Transmitter (ID=0) Being The Center Position.
	Yaw	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.
	YPos	XPos,YPos,ZPos Define The Transmitter / Receiver Positions In A Local Coordinate System With The Transmitter (ID=0) Being The Center Position.
	ZPos	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
	Clone	Clones this instance.

 Equals(Object)	Determines whether the specified object is equal to the current object. (Inherited from Object .)
 Equals(RFDevice)	Gibt an, ob das aktuelle Objekt gleich einem anderen Objekt des gleichen Typs ist.
 FromXml	Froms the XML.
 S	
 GetHashCode	Serves as the default hash function. (Inherited from Object .)
 GetType	Gets the Type of the current instance. (Inherited from Object .)
 ToString	Returns a String that represents this instance. (Overrides Object.ToString() .)
 ToXml	To the XML.
 Validate	

Events

	Name	Description
 PropertyChanged	(Inherited from AbstractModelBase .)	

Fields

	Name	Description
 ALTITUDE	The PropertyName As ReadOnly String For Altitude.	
 S		
 ANTENNATYPE	The PropertyName As ReadOnly String For AntennaType.	
 S		
 BANDWIDTH_HZ	The PropertyName As ReadOnly String For Bandwidth_Hz.	
 S		
 CENTERFREQUENCY_HZ	The PropertyName As ReadOnly String For CenterFrequency_Hz.	
 S		
 DEFAULT_ALTITUDE	The DefaultValue For Altitude.	
 S		
 DEFAULT_ANTENNATYPE	The DefaultValue For AntennaType.	
 S		
 DEFAULT_BANDWIDTH_HZ	The DefaultValue For Bandwidth_Hz.	
 S		
 DEFAULT_CENTERFREQUENCY_HZ	The DefaultValue For CenterFrequency_Hz.	
 S		
 DEFAULT_DEVICESOURCE	The DefaultValue For DeviceSource.	
 S		
 DEFAULT_GAIN_DB	The DefaultValue For Gain_dB.	
 S		

 <u>DEFAULT_ID</u>	The DefaultValue For Id.
 <u>DEFAULT_LATITUDE</u>	The DefaultValue For Latitude.
 <u>DEFAULT_LONGITUDE</u>	The DefaultValue For Longitude.
 <u>DEFAULT_NAME</u>	The DefaultValue For Name.
 <u>DEFAULT_PITCH</u>	The DefaultValue For Pitch.
 <u>DEFAULT_PRIMARYKEY</u>	The DefaultValue For PrimaryKey.
 <u>DEFAULT_REMARK</u>	The DefaultValue For Remark.
 <u>DEFAULT_ROLL</u>	The DefaultValue For Roll.
 <u>DEFAULT_RXTXYTYPE</u>	The DefaultValue For RxTxType.
 <u>DEFAULT_SIGNALTONOISERATIO_DB</u>	The DefaultValue For SignalToNoiseRatio_db.
 <u>DEFAULT_STARTTIME</u>	The DefaultValue For StartTime.
 <u>DEFAULT_XPOS</u>	The DefaultValue For XPos.
 <u>DEFAULT_YAW</u>	The DefaultValue For Yaw.
 <u>DEFAULT_YPOS</u>	The DefaultValue For YPos.
 <u>DEFAULT_ZPOS</u>	The DefaultValue For ZPos.
 <u>DEVICESOURCE</u>	The PropertyName As ReadOnly String For DeviceSource.
 <u>GAIN_DB</u>	The PropertyName As ReadOnly String For Gain_db.
 <u>ID</u>	The PropertyName As ReadOnly String For Id.
 <u>LATITUDE</u>	The PropertyName As ReadOnly String For Latitude.
 <u>LONGITUDE</u>	The PropertyName As ReadOnly String For Longitude.

 <u>NAME</u>	The PropertyName As ReadOnly String For Name.
 <u>PITCH</u>	The PropertyName As ReadOnly String For Pitch.
 <u>PRIMARYKEY</u>	The PropertyName As ReadOnly String For PrimaryKey.
 <u>REMARK</u>	The PropertyName As ReadOnly String For Remark.
 <u>ROLL</u>	The PropertyName As ReadOnly String For Roll.
 <u>RXTXTYPE</u>	The PropertyName As ReadOnly String For RxTxType.
 <u>SIGNALTONOISERATIO_DB</u>	The PropertyName As ReadOnly String For SignalToNoiseRatio_dB.
 <u>STARTTIME</u>	The PropertyName As ReadOnly String For StartTime.
 <u>XPOS</u>	The PropertyName As ReadOnly String For XPos.
 <u>YAW</u>	The PropertyName As ReadOnly String For Yaw.
 <u>YPOS</u>	The PropertyName As ReadOnly String For YPos.
 <u>ZPOS</u>	The PropertyName As ReadOnly String For ZPos.

Extension Methods

	Name	Description
 <u>WithAltitude</u>	(Defined by RFDeviceExtensions .)	
 <u>WithAntennaType</u>	(Defined by RFDeviceExtensions .)	
 <u>WithBandwidth_Hz</u>	(Defined by RFDeviceExtensions .)	
 <u>WithCenterFrequency_Hz</u>	(Defined by RFDeviceExtensions .)	
 <u>WithDeviceSource</u>	(Defined by RFDeviceExtensions .)	
 <u>WithGain_dB</u>	(Defined by RFDeviceExtensions .)	
 <u>WithId</u>	(Defined by RFDeviceExtensions .)	
 <u>WithLatitude</u>	(Defined by RFDeviceExtensions .)	
 <u>WithLongitude</u>	(Defined by RFDeviceExtensions .)	
 <u>WithName</u>	(Defined by RFDeviceExtensions .)	
 <u>WithPitch</u>	(Defined by RFDeviceExtensions .)	

	WithPrimaryKey	(Defined by RFDeviceExtensions .)
	WithRemark	(Defined by RFDeviceExtensions .)
	WithRoll	(Defined by RFDeviceExtensions .)
	WithRxTxType	(Defined by RFDeviceExtensions .)
	WithSignalToNoiseRatio_dB	(Defined by RFDeviceExtensions .)
	WithStartTime	(Defined by RFDeviceExtensions .)
	WithXPos	(Defined by RFDeviceExtensions .)
	WithYaw	(Defined by RFDeviceExtensions .)
	WithYPos	(Defined by RFDeviceExtensions .)
	WithZPos	(Defined by RFDeviceExtensions .)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public RFDevice()
```

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.RFDevice Properties

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

Properties

	Name	Description
	Altitude	The Elevation Of The RF Device Above The Sea Level (Meter).
	AntennaType	AntennaType Defines The Antenna Type Used For Transmitter And Receiver Respectively. Note: Currently, Only Omnidirectional Antenna Type Is Available / Supported.
	Bandwidth_Hz	The Bandwith Of The Transmitter.
	CenterFrequency_Hz	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.
	DeviceSource	The Source Of This RF Device.
	Gain_dB	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.
	Id	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.
	Latitude	The Latitude Of The RF Device (WGS84).
	Longitude	The Longitude Of The RF Device (WGS84).
	Name	A Short Describing Display Name For The RF Device.
	Pitch	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.
	PrimaryKey	The Unique PrimarKey For This RF Device.
	Remark	A Comment Or Remark For The RF Device.
	Roll	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.
	RxTxType	For All Receivers (i.e. ID's < 0) This Parameter Defines The Radio Being Used.

	<u>SignalToNoiseRatio_dB</u>	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.
	<u>StartTime</u>	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.
	<u>XPos</u>	XPos,YPos,ZPos Define The Transmitter / Receiver Positions In A Local Coordinate System With The Transmitter (ID=0) Being The Center Position.
	<u>Yaw</u>	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.
	<u>YPos</u>	XPos,YPos,ZPos Define The Transmitter / Receiver Positions In A Local Coordinate System With The Transmitter (ID=0) Being The Center Position.
	<u>ZPos</u>	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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 ≥ 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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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 ≥ 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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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
	Clone	Clones this instance.
	Equals(Object)	Determines whether the specified object is equal to the current object. (Inherited from Object .)
	Equals(RFDevice)	Gibt an, ob das aktuelle Objekt gleich einem anderen Objekt des gleichen Typs ist.
	FromXml	Froms the XML.
	GetHashCode	Serves as the default hash function. (Inherited from Object .)
	GetType	Gets the Type of the current instance. (Inherited from Object .)
	ToString	Returns a String that represents this instance. (Overrides Object.ToString() .)
	ToXml	To the XML.
	Validate	

Extension Methods

	Name	Description
	WithAltitude	(Defined by RFDeviceExtensions .)
	WithAntennaType	(Defined by RFDeviceExtensions .)
	WithBandwidth_Hz	(Defined by RFDeviceExtensions .)
	WithCenterFrequency_Hz	(Defined by RFDeviceExtensions .)
	WithDeviceSource	(Defined by RFDeviceExtensions .)
	WithGain_dB	(Defined by RFDeviceExtensions .)
	WithId	(Defined by RFDeviceExtensions .)
	WithLatitude	(Defined by RFDeviceExtensions .)
	WithLongitude	(Defined by RFDeviceExtensions .)
	WithName	(Defined by RFDeviceExtensions .)
	WithPitch	(Defined by RFDeviceExtensions .)
	WithPrimaryKey	(Defined by RFDeviceExtensions .)
	WithRemark	(Defined by RFDeviceExtensions .)
	WithRoll	(Defined by RFDeviceExtensions .)
	WithRxTxType	(Defined by RFDeviceExtensions .)
	WithSignalToNoiseRatio_dB	(Defined by RFDeviceExtensions .)

	<u>WithStartTime</u>	(Defined by RFDeviceExtensions .)
	<u>WithXPos</u>	(Defined by RFDeviceExtensions .)
	<u>WithYaw</u>	(Defined by RFDeviceExtensions .)
	<u>WithYPos</u>	(Defined by RFDeviceExtensions .)
	<u>WithZPos</u>	(Defined by RFDeviceExtensions .)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.Clone Method

Clones this instance.

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 1.5.0.0 (1.5)

Syntax

C#

```
public RFDevice Clone()
```

Return Value

Type: [RFDevice](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.Equals Method

Overload List

	Name	Description
	Equals(Object)	Determines whether the specified object is equal to the current object. (Inherited from Object .)
	Equals(RFDevice)	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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
	PropertyChanged	(Inherited from AbstractModelBase .)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.RFDevice Fields

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

Fields

	Name	Description
◆	ALTITUDE	The PropertyName As ReadOnly String For Altitude.
◆	ANTENNATYPE	The PropertyName As ReadOnly String For AntennaType.
◆	BANDWIDTH_HZ	The PropertyName As ReadOnly String For Bandwidth_Hz.
◆	CENTERFREQUENCY_HZ	The PropertyName As ReadOnly String For CenterFrequency_Hz.
◆	DEFAULT_ALTITUDE	The DefaultValue For Altitude.
◆	DEFAULT_ANTENNATYPE	The DefaultValue For AntennaType.
◆	DEFAULT_BANDWIDTH_HZ	The DefaultValue For Bandwidth_Hz.
◆	DEFAULT_CENTERFREQUENCY_HZ	The DefaultValue For CenterFrequency_Hz.
◆	DEFAULT_DEVICESOURCE	The DefaultValue For DeviceSource.
◆	DEFAULT_GAIN_DB	The DefaultValue For Gain_dB.
◆	DEFAULT_ID	The DefaultValue For Id.
◆	DEFAULT_LATITUDE	The DefaultValue For Latitude.
◆	DEFAULT_LONGITUDE	The DefaultValue For Longitude.
◆	DEFAULT_NAME	The DefaultValue For Name.
◆	DEFAULT_PITCH	The DefaultValue For Pitch.
◆	DEFAULT_PRIMARYKEY	The DefaultValue For PrimaryKey.
◆	DEFAULT_REMARK	The DefaultValue For Remark.

 <u>DEFAULT_ROLL</u>	The DefaultValue For Roll.
 <u>DEFAULT_RXTXTYPE</u>	The DefaultValue For RxTxType.
 <u>DEFAULT_SIGNALTONOISERATIO_DB</u>	The DefaultValue For SignalToNoiseRatio_dB.
 <u>DEFAULT_STARTTIME</u>	The DefaultValue For StartTime.
 <u>DEFAULT_XPOS</u>	The DefaultValue For XPos.
 <u>DEFAULT_YAW</u>	The DefaultValue For Yaw.
 <u>DEFAULT_YPOS</u>	The DefaultValue For YPos.
 <u>DEFAULT_ZPOS</u>	The DefaultValue For ZPos.
 <u>DEVICESOURCE</u>	The PropertyName As ReadOnly String For DeviceSource.
 <u>GAIN_DB</u>	The PropertyName As ReadOnly String For Gain_dB.
 <u>ID</u>	The PropertyName As ReadOnly String For Id.
 <u>LATITUDE</u>	The PropertyName As ReadOnly String For Latitude.
 <u>LONGITUDE</u>	The PropertyName As ReadOnly String For Longitude.
 <u>NAME</u>	The PropertyName As ReadOnly String For Name.
 <u>PITCH</u>	The PropertyName As ReadOnly String For Pitch.
 <u>PRIMARYKEY</u>	The PropertyName As ReadOnly String For PrimaryKey.
 <u>REMARK</u>	The PropertyName As ReadOnly String For Remark.
 <u>ROLL</u>	The PropertyName As ReadOnly String For Roll.
 <u>RXTXTYPE</u>	The PropertyName As ReadOnly String For RxTxType.
 <u>SIGNALTONOISERATIO_DB</u>	The PropertyName As ReadOnly String For SignalToNoiseRatio_dB.

 	<u>STARTTIME</u>	The PropertyName As ReadOnly String For StartTime.
 	<u>XPOS</u>	The PropertyName As ReadOnly String For XPos.
 	<u>YAW</u>	The PropertyName As ReadOnly String For Yaw.
 	<u>YPOS</u>	The PropertyName As ReadOnly String For YPos.
 	<u>ZPOS</u>	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public static class RFDeviceExtensions
```

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

Methods

	Name	Description
	WithAltitude	
	WithAntennaType	
	WithBandwidth_Hz	
	WithCenterFrequency_Hz	
	WithDeviceSource	
	WithGain_dB	
	WithId	
	WithLatitude	
	WithLongitude	
	WithName	
	WithPitch	
	WithPrimaryKey	
	WithRemark	
	WithRoll	
	WithRxTxType	
	WithSignalToNoiseRatio_dB	
	WithStartTime	
	WithXPos	
	WithYaw	
	WithYPos	



[WithZPos](#)

[See Also](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceExtensions.RFDeviceExtensions Methods

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

Methods

	Name	Description
 	WithAltitude	
 	WithAntennaType	
 	WithBandwidth_Hz	
 	WithCenterFrequency_Hz	
 	WithDeviceSource	
 	WithGain_dB	
 	WithId	
 	WithLatitude	
 	WithLongitude	
 	WithName	
 	WithPitch	
 	WithPrimaryKey	
 	WithRemark	
 	WithRoll	
 	WithRxTxType	
 	WithSignalToNoiseRatio_dB	
 	WithStartTime	
 	WithXPos	
 	WithYaw	
 	WithYPos	
 	WithZPos	

See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceExtensions.WithAltitude Method

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public static RFDevice WithRxTxType(
    this RFDevice instance,
    RxTxType value
)
```

Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#)

value

Type: [SIGENCEScenarioTool.Models.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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public sealed class RFDeviceList : List<RFDevice>
```

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

Constructors

	Name	Description
	RFDeviceList()	Initializes a new instance of the RFDeviceList class.
	RFDeviceList(Int32)	Initializes a new instance of the RFDeviceList class.
	RFDeviceList(IEnumerable(RFDevice))	Initializes a new instance of the RFDeviceList class.

Properties

	Name	Description
	Capacity	Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from List(RFDevice) .)
	Count	Gets the number of elements contained in the List(T) . (Inherited from List(RFDevice) .)
	Item	Gets or sets the element at the specified index. (Inherited from List(RFDevice) .)

Methods

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

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

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

		List(T) that starts at the specified index and contains the specified number of elements. (Inherited from List(RFDevice) .)
≡	Insert	Inserts an element into the List(T) at the specified index. (Inherited from List(RFDevice) .)
≡	InsertRange	Inserts the elements of a collection into the List(T) at the specified index. (Inherited from List(RFDevice) .)
≡	LastIndexOf(T)	Searches for the specified object and returns the zero-based index of the last occurrence within the entire List(T) . (Inherited from List(RFDevice) .)
≡	LastIndexOf(T, Int32)	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the List(T) that extends from the first element to the specified index. (Inherited from List(RFDevice) .)
≡	LastIndexOf(T, Int32, Int32)	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the List(T) that contains the specified number of elements and ends at the specified index. (Inherited from List(RFDevice) .)
≡	Remove	Removes the first occurrence of a specific object from the List(T) . (Inherited from List(RFDevice) .)
≡	RemoveAll	Removes all the elements that match the conditions defined by the specified predicate. (Inherited from List(RFDevice) .)
≡	RemoveAt	Removes the element at the specified index of the List(T) . (Inherited from List(RFDevice) .)
≡	RemoveRange	Removes a range of elements from the List(T) . (Inherited from List(RFDevice) .)
≡	Reverse()	Reverses the order of the elements in the entire List(T) . (Inherited from List(RFDevice) .)
≡	Reverse(Int32, Int32)	Reverses the order of the elements in the specified range. (Inherited from List(RFDevice) .)
≡	Sort()	Sorts the elements in the entire List(T) using the default comparer. (Inherited from List(RFDevice) .)
≡	Sort(IComparer(T))	Sorts the elements in the entire List(T) using the specified comparer. (Inherited from List(RFDevice) .)
≡	Sort(Comparison(T))	Sorts the elements in the entire List(T) using the specified Comparison(T) . (Inherited from List(RFDevice) .)
≡	Sort(Int32, Int32, IComparer(T))	Sorts the elements in a range of elements in List(T) using the specified comparer. (Inherited from List(RFDevice) .)
≡	ToArray	Copies the elements of the List(T) to a new array. (Inherited from List(RFDevice) .)
≡	ToString	Returns a string that represents the current object. (Inherited from Object .)

 TrimExcess	Sets the capacity to the actual number of elements in the List(T) , if that number is less than a threshold value. (Inherited from List(RFDevice) .)
 TrueForAll	Determines whether every element in the List(T) matches the conditions defined by the specified predicate. (Inherited from List(RFDevice) .)

Extension Methods

	Name	Description
 SaveAsCsv(RFDevice)	Saves the list as CSV. (Defined by ListExtension .)	
 SaveAsXml(RFDevice)	Saves the list as XML. (Defined by ListExtension .)	

See Also

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceList Constructor

Overload List

Name	Description
 RFDeviceList()	Initializes a new instance of the RFDeviceList class.
 RFDeviceList(Int32)	Initializes a new instance of the RFDeviceList class.
 RFDeviceList(IEnumerable(RFDevice))	Initializes a new instance of the RFDeviceList 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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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
	Capacity	Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from List(RFDevice) .)
	Count	Gets the number of elements contained in the List(T) . (Inherited from List(RFDevice) .)
	Item	Gets or sets the element at the specified index. (Inherited from List(RFDevice) .)

See Also

[RFDeviceList Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceList.RFDeviceList Methods

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

Methods

Name	Description
Add	Adds an object to the end of the List(T) . (Inherited from List(RFDevice) .)
AddRange	Adds the elements of the specified collection to the end of the List(T) . (Inherited from List(RFDevice) .)
AsReadOnly	Returns a read-only IList(T) wrapper for the current collection. (Inherited from List(RFDevice) .)
BinarySearch(T)	Searches the entire sorted List(T) for an element using the default comparer and returns the zero-based index of the element. (Inherited from List(RFDevice) .)
BinarySearch(T, IComparer(T))	Searches the entire sorted List(T) for an element using the specified comparer and returns the zero-based index of the element. (Inherited from List(RFDevice) .)
BinarySearch(Int32, Int32, T, IComparer(T))	Searches a range of elements in the sorted List(T) for an element using the specified comparer and returns the zero-based index of the element. (Inherited from List(RFDevice) .)
Clear	Removes all elements from the List(T) . (Inherited from List(RFDevice) .)
Contains	Determines whether an element is in the List(T) . (Inherited from List(RFDevice) .)
ConvertAll(TOutput)	Converts the elements in the current List(T) to another type, and returns a list containing the converted elements. (Inherited from List(RFDevice) .)
CopyTo(T[])	Copies the entire List(T) to a compatible one-dimensional array, starting at the beginning of the target array. (Inherited from List(RFDevice) .)
CopyTo(T[], Int32)	Copies the entire List(T) to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from List(RFDevice) .)
CopyTo(Int32, T[], Int32, Int32)	Copies a range of elements from the List(T) to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from List(RFDevice) .)
CreateRandomizedRFDeviceList	Creates the randomized rf device list.
S	
Equals	Determines whether the specified object is equal to the current object. (Inherited from Object .)

 Exists	Determines whether the List(T) contains elements that match the conditions defined by the specified predicate. (Inherited from List(RFDevice) .)
 Find	Searches for an element that matches the conditions defined by the specified predicate, and returns the first occurrence within the entire List(T) . (Inherited from List(RFDevice) .)
 FindAll	Retrieves all the elements that match the conditions defined by the specified predicate. (Inherited from List(RFDevice) .)
 FindIndex(Predicate(T))	Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the entire List(T) . (Inherited from List(RFDevice) .)
 FindIndex(Int32, Predicate(T))	Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the range of elements in the List(T) that extends from the specified index to the last element. (Inherited from List(RFDevice) .)
 FindIndex(Int32, Int32, Predicate(T))	Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the range of elements in the List(T) that starts at the specified index and contains the specified number of elements. (Inherited from List(RFDevice) .)
 FindLast	Searches for an element that matches the conditions defined by the specified predicate, and returns the last occurrence within the entire List(T) . (Inherited from List(RFDevice) .)
 FindLastIndex(Predicate(T))	Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the entire List(T) . (Inherited from List(RFDevice) .)
 FindLastIndex(Int32, Predicate(T))	Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the range of elements in the List(T) that extends from the first element to the specified index. (Inherited from List(RFDevice) .)
 FindLastIndex(Int32, Int32, Predicate(T))	Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the range of elements in the List(T) that contains the specified number of elements and ends at the specified index. (Inherited from List(RFDevice) .)
 ForEach	Performs the specified action on each element of the List(T) . (Inherited from List(RFDevice) .)
 GetEnumerator	Returns an enumerator that iterates through the List(T) . (Inherited from List(RFDevice) .)

 GetHashCode	Serves as the default hash function. (Inherited from Object .)
 GetRange	Creates a shallow copy of a range of elements in the source List(T) . (Inherited from List(RFDevice) .)
 GetType	Gets the Type of the current instance. (Inherited from Object .)
 IndexOf(T)	Searches for the specified object and returns the zero-based index of the first occurrence within the entire List(T) . (Inherited from List(RFDevice) .)
 IndexOf(T, Int32)	Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the List(T) that extends from the specified index to the last element. (Inherited from List(RFDevice) .)
 IndexOf(T, Int32, Int32)	Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the List(T) that starts at the specified index and contains the specified number of elements. (Inherited from List(RFDevice) .)
 Insert	Inserts an element into the List(T) at the specified index. (Inherited from List(RFDevice) .)
 InsertRange	Inserts the elements of a collection into the List(T) at the specified index. (Inherited from List(RFDevice) .)
 LastIndexOf(T)	Searches for the specified object and returns the zero-based index of the last occurrence within the entire List(T) . (Inherited from List(RFDevice) .)
 LastIndexOf(T, Int32)	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the List(T) that extends from the first element to the specified index. (Inherited from List(RFDevice) .)
 LastIndexOf(T, Int32, Int32)	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the List(T) that contains the specified number of elements and ends at the specified index. (Inherited from List(RFDevice) .)
 Remove	Removes the first occurrence of a specific object from the List(T) . (Inherited from List(RFDevice) .)
 RemoveAll	Removes all the elements that match the conditions defined by the specified predicate. (Inherited from List(RFDevice) .)
 RemoveAt	Removes the element at the specified index of the List(T) . (Inherited from List(RFDevice) .)
 RemoveRange	Removes a range of elements from the List(T) . (Inherited from List(RFDevice) .)
 Reverse()	Reverses the order of the elements in the entire List(T) . (Inherited from List(RFDevice) .)

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

Extension Methods

	Name	Description
 SaveAsCsv(RFDevice)	Saves the list as CSV. (Defined by ListExtension .)	
 SaveAsXml(RFDevice)	Saves the list as XML. (Defined by ListExtension .)	

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: 1.5.0.0 (1.5)

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](#)

RxTxType Enumeration

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 1.5.0.0 (1.5)

Syntax

C#

```
public enum RxTxType
```

Members

Member name	Value	Description
HackRF	-1	
TwinRx	-2	
B200Mini	-3	
IdealSDR	-4	
QPSK	1	
SIN	2	
FMRadio	3	
Unknown	4242	

See Also

[SIGENCEScenarioTool.Models Namespace](#)

Servity Enumeration

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 1.5.0.0 (1.5)

Syntax

C#

```
public enum Servity
```

Members

	Member name	Value	Description
	Information	0	The information
	Warning	1	The warning
	Error	2	The error
	Fatal	3	The fatal

See Also

[SIGENCEScenarioTool.Models Namespace](#)

SIGENCEScenarioTool.Models.Validation Namespace

Classes

	Class	Description
	<u>ValidationResult</u>	
	<u>ValidationResultList</u>	

ValidationResult Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Models.Validation ValidationResult

Namespace: [SIGENCEScenarioTool.Models.Validation](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 1.5.0.0 (1.5)

Syntax

C#

```
public sealed class ValidationResult
```

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

Constructors

	Name	Description
	ValidationResult	Initializes a new instance of the ValidationResult class.

Properties

	Name	Description
	Id	Gets the identifier.
	Message	Gets the message.
	PropertyName	Gets the property.
	Servity	Gets the servity.
	Source	Gets the source.
	Timestamp	Gets the timestamp.
	Value	Gets the value.

Methods

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

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: 1.5.0.0 (1.5)

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
	Id	Gets the identifier.
	Message	Gets the message.
	PropertyName	Gets the property.
	Servity	Gets the servity.
	Source	Gets the source.
	Timestamp	Gets the timestamp.
	Value	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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
	Equals	Determines whether the specified object is equal to the current object. (Inherited from Object .)
	GetHashCode	Serves as the default hash function. (Inherited from Object .)
	GetType	Gets the Type of the current instance. (Inherited from Object .)
	ToString	Returns a string that represents the current object. (Inherited from Object .)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public sealed class ValidationResultList : List<ValidationResult>
```

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

Constructors

	Name	Description
	ValidationResultList	Initializes a new instance of the ValidationResultList class

Properties

	Name	Description
	Capacity	Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from List(ValidationResult) .)
	Count	Gets the number of elements contained in the List(T) . (Inherited from List(ValidationResult) .)
	Empty	Gets the empty.
	Item	Gets or sets the element at the specified index. (Inherited from List(ValidationResult) .)

Methods

	Name	Description
	Add(T)	Adds an object to the end of the List(T) . (Inherited from List(ValidationResult) .)
	Add(Servity, String, Object, String, Object)	Adds the specified validation.
	AddRange	Adds the elements of the specified collection to the end of the List(T) . (Inherited from List(ValidationResult) .)
	AsReadOnly	Returns a read-only IList(T) wrapper for the current collection. (Inherited from List(ValidationResult) .)

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

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

		starts at the specified index and contains the specified number of elements. (Inherited from List(ValidationResult) .)
≡♥	Insert	Inserts an element into the List(T) at the specified index. (Inherited from List(ValidationResult) .)
≡♥	InsertRange	Inserts the elements of a collection into the List(T) at the specified index. (Inherited from List(ValidationResult) .)
≡♥	LastIndexOf(T)	Searches for the specified object and returns the zero-based index of the last occurrence within the entire List(T) . (Inherited from List(ValidationResult) .)
≡♥	LastIndexOf(T, Int32)	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the List(T) that extends from the first element to the specified index. (Inherited from List(ValidationResult) .)
≡♥	LastIndexOf(T, Int32, Int32)	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the List(T) that contains the specified number of elements and ends at the specified index. (Inherited from List(ValidationResult) .)
≡♥	Remove	Removes the first occurrence of a specific object from the List(T) . (Inherited from List(ValidationResult) .)
≡♥	RemoveAll	Removes all the elements that match the conditions defined by the specified predicate. (Inherited from List(ValidationResult) .)
≡♥	RemoveAt	Removes the element at the specified index of the List(T) . (Inherited from List(ValidationResult) .)
≡♥	RemoveRange	Removes a range of elements from the List(T) . (Inherited from List(ValidationResult) .)
≡♥	Reverse()	Reverses the order of the elements in the entire List(T) . (Inherited from List(ValidationResult) .)
≡♥	Reverse(Int32, Int32)	Reverses the order of the elements in the specified range. (Inherited from List(ValidationResult) .)
≡♥	Sort()	Sorts the elements in the entire List(T) using the default comparer. (Inherited from List(ValidationResult) .)
≡♥	Sort(IComparer(T))	Sorts the elements in the entire List(T) using the specified comparer. (Inherited from List(ValidationResult) .)
≡♥	Sort(Comparison(T))	Sorts the elements in the entire List(T) using the specified Comparison(T) . (Inherited from List(ValidationResult) .)
≡♥	Sort(Int32, Int32, IComparer(T))	Sorts the elements in a range of elements in List(T) using the specified comparer. (Inherited from List(ValidationResult) .)
≡♥	ToArray	Copies the elements of the List(T) to a new array. (Inherited from List(ValidationResult) .)
≡♥	ToString	Returns a string that represents the current object. (Inherited from Object .)

 TrimExcess	Sets the capacity to the actual number of elements in the List(T) , if that number is less than a threshold value. (Inherited from List(ValidationResult) .)
 TrueForAll	Determines whether every element in the List(T) matches the conditions defined by the specified predicate. (Inherited from List(ValidationResult) .)

Extension Methods

	Name	Description
 SaveAsCsv(ValidationResult)	Saves the list as CSV. (Defined by ListExtension .)	

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: 1.5.0.0 (1.5)

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
	Capacity	Gets or sets the total number of elements the internal data structure can hold without resizing. (Inherited from List(ValidationResult) .)
	Count	Gets the number of elements contained in the List(T) . (Inherited from List(ValidationResult) .)
	Empty	Gets the empty.
	Item	Gets or sets the element at the specified index. (Inherited from List(ValidationResult) .)

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: 1.5.0.0 (1.5)

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
≡	Add(T)	Adds an object to the end of the List(T) . (Inherited from List(ValidationResult) .)
≡	Add(Servity, String, Object, String, Object)	Adds the specified validation.
≡	AddRange	Adds the elements of the specified collection to the end of the List(T) . (Inherited from List(ValidationResult) .)
≡	AsReadOnly	Returns a read-only IList(T) wrapper for the current collection. (Inherited from List(ValidationResult) .)
≡	BinarySearch(T)	Searches the entire sorted List(T) for an element using the default comparer and returns the zero-based index of the element. (Inherited from List(ValidationResult) .)
≡	BinarySearch(T, IComparer(T))	Searches the entire sorted List(T) for an element using the specified comparer and returns the zero-based index of the element. (Inherited from List(ValidationResult) .)
≡	BinarySearch(Int32, Int32, T, IComparer(T))	Searches a range of elements in the sorted List(T) for an element using the specified comparer and returns the zero-based index of the element. (Inherited from List(ValidationResult) .)
≡	Clear	Removes all elements from the List(T) . (Inherited from List(ValidationResult) .)
≡	Contains	Determines whether an element is in the List(T) . (Inherited from List(ValidationResult) .)
≡	ConvertAll(TOutput)	Converts the elements in the current List(T) to another type, and returns a list containing the converted elements. (Inherited from List(ValidationResult) .)
≡	CopyTo(T[])	Copies the entire List(T) to a compatible one-dimensional array, starting at the beginning of the target array. (Inherited from List(ValidationResult) .)
≡	CopyTo(T[], Int32)	Copies the entire List(T) to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from List(ValidationResult) .)
≡	CopyTo(Int32, T[], Int32, Int32)	Copies a range of elements from the List(T) to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from List(ValidationResult) .)
≡	Equals	Determines whether the specified object is equal to the current object. (Inherited from Object .)

 Exists	Determines whether the List(T) contains elements that match the conditions defined by the specified predicate. (Inherited from List(ValidationResult) .)
 Find	Searches for an element that matches the conditions defined by the specified predicate, and returns the first occurrence within the entire List(T) . (Inherited from List(ValidationResult) .)
 FindAll	Retrieves all the elements that match the conditions defined by the specified predicate. (Inherited from List(ValidationResult) .)
 FindIndex(Predicate(T))	Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the entire List(T) . (Inherited from List(ValidationResult) .)
 FindIndex(Int32, Predicate(T))	Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the range of elements in the List(T) that extends from the specified index to the last element. (Inherited from List(ValidationResult) .)
 FindIndex(Int32, Int32, Predicate(T))	Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the first occurrence within the range of elements in the List(T) that starts at the specified index and contains the specified number of elements. (Inherited from List(ValidationResult) .)
 FindLast	Searches for an element that matches the conditions defined by the specified predicate, and returns the last occurrence within the entire List(T) . (Inherited from List(ValidationResult) .)
 FindLastIndex(Predicate(T))	Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the entire List(T) . (Inherited from List(ValidationResult) .)
 FindLastIndex(Int32, Predicate(T))	Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the range of elements in the List(T) that extends from the first element to the specified index. (Inherited from List(ValidationResult) .)
 FindLastIndex(Int32, Int32, Predicate(T))	Searches for an element that matches the conditions defined by the specified predicate, and returns the zero-based index of the last occurrence within the range of elements in the List(T) that contains the specified number of elements and ends at the specified index. (Inherited from List(ValidationResult) .)
 ForEach	Performs the specified action on each element of the List(T) . (Inherited from List(ValidationResult) .)
 GetEnumerator	Returns an enumerator that iterates through the List(T) . (Inherited from List(ValidationResult) .)

 GetHashCode	Serves as the default hash function. (Inherited from Object .)
 GetRange	Creates a shallow copy of a range of elements in the source List(T) . (Inherited from List(ValidationResult) .)
 GetType	Gets the Type of the current instance. (Inherited from Object .)
 IndexOf(T)	Searches for the specified object and returns the zero-based index of the first occurrence within the entire List(T) . (Inherited from List(ValidationResult) .)
 IndexOf(T, Int32)	Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the List(T) that extends from the specified index to the last element. (Inherited from List(ValidationResult) .)
 IndexOf(T, Int32, Int32)	Searches for the specified object and returns the zero-based index of the first occurrence within the range of elements in the List(T) that starts at the specified index and contains the specified number of elements. (Inherited from List(ValidationResult) .)
 Insert	Inserts an element into the List(T) at the specified index. (Inherited from List(ValidationResult) .)
 InsertRange	Inserts the elements of a collection into the List(T) at the specified index. (Inherited from List(ValidationResult) .)
 LastIndexOf(T)	Searches for the specified object and returns the zero-based index of the last occurrence within the entire List(T) . (Inherited from List(ValidationResult) .)
 LastIndexOf(T, Int32)	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the List(T) that extends from the first element to the specified index. (Inherited from List(ValidationResult) .)
 LastIndexOf(T, Int32, Int32)	Searches for the specified object and returns the zero-based index of the last occurrence within the range of elements in the List(T) that contains the specified number of elements and ends at the specified index. (Inherited from List(ValidationResult) .)
 Remove	Removes the first occurrence of a specific object from the List(T) . (Inherited from List(ValidationResult) .)
 RemoveAll	Removes all the elements that match the conditions defined by the specified predicate. (Inherited from List(ValidationResult) .)
 RemoveAt	Removes the element at the specified index of the List(T) . (Inherited from List(ValidationResult) .)
 RemoveRange	Removes a range of elements from the List(T) . (Inherited from List(ValidationResult) .)
 Reverse()	Reverses the order of the elements in the entire List(T) . (Inherited from List(ValidationResult) .)

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

Extension Methods

	Name	Description
 SaveAsCsv(ValidationResult)	Saves the list as CSV. (Defined by ListExtension .)	

See Also

[ValidationResultList Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

ValidationResultList.Add Method

Overload List

	Name	Description
	Add(T)	Adds an object to the end of the List(T) . (Inherited from List(ValidationResult) .)
	Add(Servity, String, Object, String, Object)	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: 1.5.0.0 (1.5)

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
 Blink	
 GeoHelper	
 MB	Helper For A MessageBox.
 PythonSyntaxModeFileProvider	
 Speech	Klasse zum Ausgeben von Text in Sprache mittels Microsoft SAM.
 Tool	Klasse mit statischen Standalonefunktionen.
 Windows	

Enumerations

	Enumeration	Description
 GeoTag		
 Highway		

Blink Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Tools.Blink

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 1.5.0.0 (1.5)

Syntax

C#

```
public static class Blink
```

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

Methods

	Name	Description
	FadeWhiteToBlack	Fades the white to black.
	Off	Offs the LED.
	On	Ons the LED.
	SetColor(Color)	Sets the color.
	SetColor(Int32, Int32, Int32)	Sets the color.
	Show	Shows the specified number of time.
	Test	Tests this instance.

See Also

[SIGENCEScenarioTool.Tools Namespace](#)

Blink.Blink Methods

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

Methods

	Name	Description
 	FadeWhiteToBlack	Fades the white to black.
 	Off	Offs the LED.
 	On	Ons the LED.
 	SetColor(Color)	Sets the color.
 	SetColor(Int32, Int32, Int32)	Sets the color.
 	Show	Shows the specified number of time.
 	Test	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public static void On()
```

See Also

[Blink Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

BlinkSetColor Method

Overload List

	Name	Description
 S	SetColor(Color)	Sets the color.
 S	SetColor(Int32, Int32, Int32)	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public static class GeoHelper
```

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

Methods

	Name	Description
	CoordinateToPointLatLng	
	CreatePolygon	
	GeometryToString	
	StringToGeometry	

Fields

	Name	Description
	GERMANY_CENTERPOINT	

See Also

[SIGENCEScenarioTool.Tools Namespace](#)

GeoHelper.GeoHelper Methods

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

Methods

	Name	Description
	CoordinateToPointLatLng	
	CreatePolygon	
	GeometryToString	
	StringToGeometry	

See Also

[GeoHelper Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

GeoHelper.CoordinateToPointLatLng Method

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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
	GERMANY_CENTERPOINT	

See Also

[GeoHelper Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

GeoHelper.GERMANY_CENTERPOINT Field

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public enum GeoTag
```

Members

Member name	Value	Description
Aeroway	0	
Amenity	1	
Craft	2	
Emergency	3	
Leisure	4	
Man_Made	5	
Military	6	
Place	7	
Power	8	
Shop	9	
Vending	10	

See Also

[SIGENCEScenarioTool.Tools Namespace](#)

Highway Enumeration

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 1.5.0.0 (1.5)

Syntax

C#

```
public enum Highway
```

Members

Member name	Value	Description
Motorway	0	Autobahn https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dmotorway
Trunk	1	Autobahnähnliche Straße https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dtrunk
Primary	2	Bundesstraße https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dprimary
Secondary	3	Landes-, (Staats-,) oder sehr gut ausgebauter Kreisstraße https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dsecondary
Tertiary	4	Kreisstraße, sehr gut ausgebauter Gemeindeverbindungsstraße https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dtertiary
Unclassified	5	Öffentlich befahrbare Nebenstraßen mit einfachstem Ausbauzustand, typischerweise keine Mittellinie https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dunclassified
Residential	6	Straße an und in Wohngebieten, die keiner anderen Straßenklasse angehört (unclassified, tertiary, secondary, primary) https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dresidential
Service	7	Erschließungsweg zu oder innerhalb von Einrichtungen wie Sportanlagen, Stränden, Autobahnraststätten oder allgemein zu Gebäuden. Wird auch für den Zugang zu Parkplätzen oder Recyclinghöfen benutzt. https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dservice
Motorway_Link	8	https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dmotorway_link
Trunk_Link	9	https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dtrunk_link
Primary_Link	10	https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dprimary_link
Secondary_Link	11	https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dsecondary_link
Tertiary_Link	12	https://wiki.openstreetmap.org/wiki/Tag:highway%3Dtertiary_link

See Also

[SIGENCEScenarioTool.Tools Namespace](#)

MB Class

Helper For A MessageBox.

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Tools.MB

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 1.5.0.0 (1.5)

Syntax

C#

```
public static class MB
```

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

Methods

	Name	Description
 	Error	Errors the specified ex.
 	HereIAm	Heres the i am.
 	Information(String)	Informations the specified string information text.
 	Information(String, Object[])	Informations the specified string format.
 	NotYetImplemented	Nots the yet implemented.
 	Warning(String)	Warnings the specified string information text.
 	Warning(String, Object[])	Warnings the specified string format.

See Also

[SIGENCEScenarioTool.Tools Namespace](#)

MB.MB Methods

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

Methods

	Name	Description
 	Error	Errors the specified ex.
 	HereIAm	Heres the i am.
 	Information(String)	Informations the specified string information text.
 	Information(String, Object[])	Informations the specified string format.
 	NotYetImplemented	Nots the yet implemented.
 	Warning(String)	Warnings the specified string information text.
 	Warning(String, Object[])	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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
 	Information(String)	Informations the specified string information text.
 	Information(String, Object[])	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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

	Name	Description
 S	Warning(String)	Warnings the specified string information text.
 S	Warning(String, Object[])	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public sealed class PythonSyntaxModeFileProvider : ISyntaxModeFileProvider
```

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

Constructors

	Name	Description
	PythonSyntaxModeFileProvider	Initializes a new instance of the PythonSyntaxModeFileProvider class.

Properties

	Name	Description
	SyntaxModes	Gets the syntax modes.

Methods

	Name	Description
	Equals	Determines whether the specified object is equal to the current object. (Inherited from Object .)
	GetHashCode	Serves as the default hash function. (Inherited from Object .)
	GetSyntaxModeFile	Gets the syntax mode file.
	GetType	Gets the Type of the current instance. (Inherited from Object .)
	ToString	Returns a string that represents the current object. (Inherited from Object .)
	UpdateSyntaxModeList	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: 1.5.0.0 (1.5)

Syntax

C#

```
public PythonSyntaxModeFileProvider()
```

See Also

[PythonSyntaxModeFileProvider Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

PythonSyntaxModeFileProvider.PythonSyntaxModeFileProvider

Properties

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

Properties

	Name	Description
	SyntaxModes	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: 1.5.0.0 (1.5)

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
 Equals	Determines whether the specified object is equal to the current object. (Inherited from Object .)	
 GetHashCode	Serves as the default hash function. (Inherited from Object .)	
 GetSyntaxModeFile	Gets the syntax mode file.	
 GetType	Gets the Type of the current instance. (Inherited from Object .)	
 ToString	Returns a string that represents the current object. (Inherited from Object .)	
 UpdateSyntaxModeList	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public sealed class Speech : IDisposable
```

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

Constructors

	Name	Description
	Speech	Initializes a new instance of the Speech class.

Properties

	Name	Description
	State	Gets the state.

Methods

	Name	Description
	Dispose	Führt anwendungsspezifische Aufgaben durch, die mit der Freigabe, der Zurückgabe oder dem Zurücksetzen von nicht verwalteten Ressourcen zusammenhängen.
	Equals	Determines whether the specified object is equal to the current object. (Inherited from Object .)
	GetHashCode	Serves as the default hash function. (Inherited from Object .)
	GetType	Gets the Type of the current instance. (Inherited from Object .)
	Say	Says the specified string content.
	Speak	Gibt den übergebenen Text aus.
	ToString	Returns a string that represents the current object. (Inherited from Object .)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public Speech()
```

See Also

[Speech Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Speech.Speech Properties

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

Properties

	Name	Description
	State	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: 1.5.0.0 (1.5)

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
	Dispose	Führt anwendungsspezifische Aufgaben durch, die mit der Freigabe, der Zurückgabe oder dem Zurücksetzen von nicht verwalteten Ressourcen zusammenhängen.
	Equals	Determines whether the specified object is equal to the current object. (Inherited from Object .)
	GetHashCode	Serves as the default hash function. (Inherited from Object .)
	GetType	Gets the Type of the current instance. (Inherited from Object .)
	Say	Says the specified string content.
		
	Speak	Gibt den übergebenen Text aus.
	ToString	Returns a string that represents the current object. (Inherited from Object .)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public static class Tool
```

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

Properties

	Name	Description
 ProductName		Gets the name of the product.
 ProductTitle		Gets the product title.
 StartupPath		Gets the startup path.
 Version		Gets the version.

Methods

	Name	Description
 GetGrad		Gets the grad.
 GetGradMinutesSeconds		Gets the grad minutes seconds.
 GetHumanDistance		Gets the human distance.
 GetHumanSize		Gets the size of the human.
 ReadResourceAsString		Reads the resource as string.

Fields

	Name	Description
 ALLCHARS		The allchars
 ALLPANGRAMS		The allpangrams
 FOX		The quick brown fox jumps over a lazy dog.
 FRANZ		Franz jagt im komplett verwahrlosten Taxi quer durch Bayern.
 WILFRIED		Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.

 S	<u>XYLOPHONMUSIK</u>	Falsches Üben von Xylophonmusik quält jeden größeren Zwerg.
---	--------------------------------------	---

See Also

[SIGENCEScenarioTool.Tools Namespace](#)

Tool.Tool Properties

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

Properties

	Name	Description
 	ProductName	Gets the name of the product.
 	ProductTitle	Gets the product title.
 	StartupPath	Gets the startup path.
 	Version	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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
 GetGrad		Gets the grad.
 GetGradMinutesSeconds		Gets the grad minutes seconds.
 GetHumanDistance		Gets the human distance.
 GetHumanSize		Gets the size of the human.
 ReadResourceAsString		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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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
 	ALLCHARS	The allchars
 	ALLPANGRAMS	The allpangrams
 	FOX	The quick brown fox jumps over a lazy dog.
 	FRANZ	Franz jagt im komplett verwahrlosten Taxi quer durch Bayern.
 	WILFRIED	Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.
 	XYLOPHONMUSIK	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

Syntax

C#

```
public static class Windows
```

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

Methods

	Name	Description
 	GetWPFScreenshot	Gets the WPF screenshot.
 	OpenWebAdress	Opens the web adress.
 	OpenWithDefaultApplication(FileInfo)	Opens the with default application.
 	OpenWithDefaultApplication(String)	Opens the with default application.
 	SaveWPFScreenshot	Saves the WPF screenshot.

See Also

[SIGENCEScenarioTool.Tools Namespace](#)

Windows.Windows Methods

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

Methods

	Name	Description
 	GetWPFScreenshot	Gets the WPF screenshot.
 	OpenWebAdress	Opens the web adress.
 	OpenWithDefaultApplication(FileInfo)	Opens the with default application.
 	OpenWithDefaultApplication(String)	Opens the with default application.
 	SaveWPFScreenshot	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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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
 S	OpenWithDefaultApplication(FileInfo)	Opens the with default application.
 S	OpenWithDefaultApplication(String)	Opens the 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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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: 1.5.0.0 (1.5)

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](#)