

2018

SIGENCE Scenario Tool Library

Inhalt

SIGENCEScenarioTool.Database.SQLite Namespace	64
Classes.....	64
SQLiteHelper Class	65
Inheritance Hierarchy	65
Syntax.....	65
Methods.....	65
Fields	65
See Also.....	65
SQLiteHelper.SQLiteHelper Methods	66
Methods.....	66
See Also.....	66
SQLiteHelper.GetDbType Method	67
Syntax.....	67
See Also.....	67
SQLiteHelper.GetNativeType Method	68
Syntax.....	68
See Also.....	68
SQLiteHelper.GetSQLiteColumn Method	69
Syntax.....	69
See Also.....	69
SQLiteHelper.GetSQLiteParameter Method	70
Syntax.....	70
See Also.....	70
SQLiteHelper.SQLiteHelper Fields.....	71
Fields	71
See Also.....	71
SQLiteHelper.TypeMapping Field	72
Syntax.....	72
See Also.....	72
SQLiteMemoryDatabase Class	73
Inheritance Hierarchy	73
Syntax.....	73

Constructors.....	73
Properties.....	73
Methods.....	73
Operators.....	74
See Also.....	74
SQLiteMemoryDatabase Constructor.....	75
Syntax.....	75
See Also.....	75
SQLiteMemoryDatabase.SQLiteMemoryDatabase Properties.....	76
Properties.....	76
See Also.....	76
SQLiteMemoryDatabase.Connection Property	77
Syntax.....	77
See Also.....	77
SQLiteMemoryDatabase.SQLiteMemoryDatabase Methods	78
Methods.....	78
See Also.....	78
SQLiteMemoryDatabase.Dispose Method	79
Syntax.....	79
See Also.....	79
SQLiteMemoryDatabase.Finalize Method	80
Syntax.....	80
See Also.....	80
SQLiteMemoryDatabase.Load Method	81
Overload List	81
See Also.....	81
SQLiteMemoryDatabase.Load Method (FileInfo).....	82
Syntax.....	82
See Also.....	82
SQLiteMemoryDatabase.Load Method (String).....	83
Syntax.....	83
See Also.....	83
SQLiteMemoryDatabase.Save Method.....	84

Overload List	84
See Also.....	84
SQLiteMemoryDatabase.Save Method (FileInfo, Boolean, Boolean).....	85
Syntax.....	85
See Also.....	85
SQLiteMemoryDatabase.Save Method (String, Boolean, Boolean)	86
Syntax.....	86
See Also.....	86
SQLiteMemoryDatabase.SQLiteMemoryDatabase Type Conversions	87
Operators.....	87
See Also.....	87
SQLiteMemoryDatabase Implicit Conversion (SQLiteMemoryDatabase to SQLiteConnection)	88
Syntax.....	88
See Also.....	88
SIGENCEScenarioTool.Datatypes Namespace	89
Classes.....	89
DataTypeBase(<i>T</i>) Class	90
Inheritance Hierarchy	90
Syntax.....	90
Constructors.....	90
Properties.....	90
Methods.....	90
Operators	91
Fields	91
See Also	91
DataTypeBase(<i>T</i>) Constructor	92
Syntax.....	92
See Also	92
DataTypeBase(<i>T</i>).DataTypeBase(<i>T</i>) Properties	93
Properties.....	93
See Also	93
DataTypeBase(<i>T</i>).Value Property.....	94
Syntax.....	94

UnitPrefix.UnitPrefix Properties	104
Properties.....	104
See Also.....	104
UnitPrefix.Factor Property.....	105
Syntax.....	105
See Also.....	105
UnitPrefix.Name Property.....	106
Syntax.....	106
See Also.....	106
UnitPrefix.Symbol Property	107
Syntax.....	107
See Also.....	107
UnitPrefix.UnitPrefix Methods.....	108
Methods.....	108
See Also.....	108
UnitPrefixs Class.....	109
Inheritance Hierarchy	109
Syntax.....	109
Constructors.....	109
Methods.....	109
Fields	109
See Also.....	110
UnitPrefixs Constructor.....	111
Syntax.....	111
See Also.....	111
UnitPrefixs.UnitPrefixs Methods	112
Methods.....	112
See Also.....	112
UnitPrefixs.UnitPrefixs Fields.....	113
Fields	113
See Also.....	113
UnitPrefixs.Atto Field	114
Syntax.....	114

See Also.....	114
UnitPrefixs.Default Field	115
Syntax.....	115
See Also.....	115
UnitPrefixs.Exa Field	116
Syntax.....	116
See Also.....	116
UnitPrefixs.Femto Field.....	117
Syntax.....	117
See Also.....	117
UnitPrefixs.Giga Field.....	118
Syntax.....	118
See Also.....	118
UnitPrefixs.Kilo Field.....	119
Syntax.....	119
See Also.....	119
UnitPrefixs.Mega Field.....	120
Syntax.....	120
See Also.....	120
UnitPrefixs.Mikro Field	121
Syntax.....	121
See Also.....	121
UnitPrefixs.Milli Field.....	122
Syntax.....	122
See Also.....	122
UnitPrefixs.Nano Field	123
Syntax.....	123
See Also.....	123
UnitPrefixs.Peta Field.....	124
Syntax.....	124
See Also.....	124
UnitPrefixs.Piko Field	125
Syntax.....	125

See Also.....	125
UnitPrefixs.Tera Field.....	126
Syntax.....	126
See Also.....	126
SIGENCEScenarioTool.Datatypes.Geo Namespace.....	127
Classes.....	127
Altitude Class	128
Inheritance Hierarchy	128
Syntax.....	128
Constructors.....	128
Properties.....	128
Methods.....	128
Operators.....	128
See Also.....	128
Altitude Constructor	130
Syntax.....	130
See Also.....	130
Altitude.Altitude Properties.....	131
Properties.....	131
See Also.....	131
Altitude.Altitude Methods.....	132
Methods.....	132
See Also.....	132
Altitude.IsValid Method.....	133
Syntax.....	133
See Also.....	133
Altitude.Altitude Type Conversions	134
Operators.....	134
See Also.....	134
Altitude Implicit Conversion (Int32 to Altitude)	135
Syntax.....	135
See Also.....	135
GeoNode Class	136

Inheritance Hierarchy	136
Syntax.....	136
Constructors.....	136
Properties.....	136
Methods.....	136
See Also.....	136
GeoNode Constructor	138
Syntax.....	138
See Also.....	138
GeoNode.GeoNode Properties	139
Properties.....	139
See Also.....	139
GeoNode.Latitude Property.....	140
Syntax.....	140
See Also.....	140
GeoNode.Longitude Property.....	141
Syntax.....	141
See Also.....	141
GeoNode.Name Property	142
Syntax.....	142
See Also.....	142
GeoNode.NodeId Property	143
Syntax.....	143
See Also.....	143
GeoNode.Position Property	144
Syntax.....	144
See Also.....	144
GeoNode.Tag Property	145
Syntax.....	145
See Also.....	145
GeoNode.Value Property	146
Syntax.....	146
See Also.....	146

GeoNode.GeoNode Methods	147
Methods.....	147
See Also.....	147
GeoNodeCollection Class	148
Inheritance Hierarchy	148
Syntax.....	148
Properties.....	148
Methods.....	148
Events.....	149
See Also.....	149
GeoNodeCollection.GeoNodeCollection Properties.....	150
Properties.....	150
See Also.....	150
GeoNodeCollection.GeoNodeCollection Methods.....	151
Methods.....	151
See Also.....	151
GeoNodeCollection.GetCollection Method.....	152
Syntax.....	152
Exceptions	152
See Also.....	152
GeoNodeCollection.GeoNodeCollection Events.....	153
Events.....	153
See Also.....	153
Latitude Class	154
Inheritance Hierarchy	154
Syntax.....	154
Constructors.....	154
Properties.....	154
Methods.....	154
Operators.....	154
See Also.....	154
Latitude Constructor.....	156
Syntax.....	156

See Also.....	156
Latitude.Latitude Properties	157
Properties.....	157
See Also.....	157
Latitude.Latitude Methods	158
Methods.....	158
See Also.....	158
Latitude.IsValid Method.....	159
Syntax.....	159
See Also.....	159
Latitude.ToString Method.....	160
Syntax.....	160
See Also.....	160
Latitude.Latitude Type Conversions	161
Operators.....	161
See Also.....	161
Latitude Implicit Conversion (Double to Latitude).....	162
Syntax.....	162
See Also.....	162
Longitude Class	163
Inheritance Hierarchy	163
Syntax.....	163
Constructors.....	163
Properties.....	163
Methods.....	163
Operators.....	163
See Also.....	163
Longitude Constructor	165
Syntax.....	165
See Also.....	165
Longitude.Longitude Properties	166
Properties.....	166
See Also.....	166

Longitude.Longitude Methods.....	167
Methods.....	167
See Also.....	167
Longitude.IsValid Method.....	168
Syntax.....	168
See Also.....	168
Longitude.ToString Method	169
Syntax.....	169
See Also.....	169
Longitude.Longitude Type Conversions.....	170
Operators.....	170
See Also.....	170
Longitude Implicit Conversion (Double to Longitude).....	171
Syntax.....	171
See Also.....	171
SIGENCEScenarioTool.Datatypes.Observable Namespace	172
Classes.....	172
ObservableStringCollection Class	173
Inheritance Hierarchy	173
Syntax.....	173
Constructors.....	173
Properties.....	173
Methods.....	173
Events.....	174
See Also.....	174
ObservableStringCollection Constructor	175
Syntax.....	175
See Also.....	175
ObservableStringCollection.ObservableStringCollection Properties.....	176
Properties.....	176
See Also.....	176
ObservableStringCollection.ObservableStringCollection Methods	177
Methods.....	177

See Also.....	177
ObservableStringCollection.ObservableStringCollection Events.....	178
Events.....	178
See Also.....	178
SIGENCEScenarioTool.Datatypes.Physically Namespace.....	179
Classes.....	179
Bandwidth Class.....	180
Inheritance Hierarchy	180
Syntax.....	180
Constructors.....	180
Properties.....	180
Methods.....	180
Operators.....	180
See Also.....	180
Bandwidth Constructor.....	182
Syntax.....	182
See Also.....	182
Bandwidth.Bandwidth Properties.....	183
Properties.....	183
See Also.....	183
Bandwidth.Bandwidth Methods.....	184
Methods.....	184
See Also.....	184
Bandwidth.IsValid Method	185
Syntax.....	185
See Also.....	185
Bandwidth.ToString Method	186
Syntax.....	186
See Also.....	186
Bandwidth.Bandwidth Type Conversions.....	187
Operators.....	187
See Also.....	187
Bandwidth Implicit Conversion (Double to Bandwidth)	188

Syntax.....	188
See Also.....	188
Frequency Class.....	189
Inheritance Hierarchy	189
Syntax.....	189
Constructors.....	189
Properties.....	189
Methods.....	189
Operators	189
See Also.....	189
Frequency Constructor	191
Syntax.....	191
See Also.....	191
Frequency.Frequency Properties.....	192
Properties.....	192
See Also.....	192
Frequency.Frequency Methods.....	193
Methods.....	193
See Also.....	193
Frequency.IsValid Method.....	194
Syntax.....	194
See Also.....	194
Frequency.ToString Method	195
Syntax.....	195
See Also.....	195
Frequency.Frequency Type Conversions	196
Operators.....	196
See Also.....	196
Frequency Implicit Conversion (Double to Frequency)	197
Syntax.....	197
See Also.....	197
Gain Class	198
Inheritance Hierarchy	198

Syntax.....	198
Constructors.....	198
Properties.....	198
Methods.....	198
Operators.....	198
See Also.....	198
Gain Constructor	200
Syntax.....	200
See Also.....	200
Gain.Gain Properties.....	201
Properties.....	201
See Also.....	201
Gain.Gain Methods	202
Methods.....	202
See Also.....	202
Gain.IsValid Method	203
Syntax.....	203
See Also.....	203
Gain.ToString Method.....	204
Syntax.....	204
See Also.....	204
Gain.Gain Type Conversions	205
Operators.....	205
See Also.....	205
Gain Implicit Conversion (Double to Gain)	206
Syntax.....	206
See Also.....	206
SignalToNoiseRatio Class	207
Inheritance Hierarchy	207
Syntax.....	207
Constructors.....	207
Properties.....	207
Methods.....	207

Operators.....	207
See Also.....	208
SignalToNoiseRatio Constructor	209
Syntax.....	209
See Also.....	209
SignalToNoiseRatio.SignalToNoiseRatio Properties	210
Properties.....	210
See Also.....	210
SignalToNoiseRatio.SignalToNoiseRatio Methods.....	211
Methods.....	211
See Also.....	211
SignalToNoiseRatio.IsValid Method.....	212
Syntax.....	212
See Also.....	212
SignalToNoiseRatio.ToString Method	213
Syntax.....	213
See Also.....	213
SignalToNoiseRatio.SignalToNoiseRatio Type Conversions.....	214
Operators	214
See Also.....	214
SignalToNoiseRatio Implicit Conversion (Double to SignalToNoiseRatio)	215
Syntax.....	215
See Also.....	215
SIGENCEScenarioTool.Datatypes.Standard Namespace.....	216
Classes.....	216
IntegerList Class	217
Inheritance Hierarchy	217
Syntax.....	217
Constructors.....	217
Properties.....	217
Methods.....	217
Operators	221
Extension Methods	221

See Also.....	221
IntegerList Constructor	222
Overload List	222
See Also.....	222
IntegerList Constructor	223
Syntax.....	223
See Also.....	223
IntegerList Constructor (IEnumerable(Int32))	224
Syntax.....	224
See Also.....	224
IntegerList Constructor (Int32)	225
Syntax.....	225
See Also.....	225
IntegerList.IntegerList Properties	226
Properties.....	226
See Also.....	226
IntegerList.IntegerList Methods.....	227
Methods.....	227
Extension Methods	230
See Also.....	230
IntegerList.IntegerList Operators.....	231
Operators	231
See Also.....	231
IntegerList.Multiply Operator	232
Syntax.....	232
See Also.....	232
StringList Class.....	233
Inheritance Hierarchy	233
Syntax.....	233
Constructors.....	233
Properties.....	233
Methods.....	233
Operators	237

Extension Methods	237
See Also.....	237
StringList Constructor	238
Overload List	238
See Also.....	238
StringList Constructor	239
Syntax.....	239
See Also.....	239
StringList Constructor (IEnumerable(String)).....	240
Syntax.....	240
See Also.....	240
StringList Constructor (Int32).....	241
Syntax.....	241
See Also.....	241
StringList Constructor (String[])	242
Syntax.....	242
See Also.....	242
StringList.StringList Properties.....	243
Properties.....	243
See Also.....	243
StringList.StringList Methods	244
Methods.....	244
Extension Methods	247
See Also.....	247
StringList.StringList Type Conversions	248
Operators	248
See Also.....	248
StringList Implicit Conversion (StringList to String[])	249
Syntax.....	249
See Also.....	249
SIGENCEScenarioTool.Extensions Namespace	250
Classes.....	250
ColorExtension Class	251

Inheritance Hierarchy	251
Syntax.....	251
Methods.....	251
See Also.....	251
ColorExtension.ColorExtension Methods	252
Methods.....	252
See Also.....	252
ColorExtension.WithAlpha Method	253
Syntax.....	253
See Also.....	253
DateTimeExtension Class	254
Inheritance Hierarchy	254
Syntax.....	254
Methods.....	254
See Also.....	254
DateTimeExtension.DateTimeExtension Methods	255
Methods.....	255
See Also.....	255
DateTimeExtension.DaysInMonth Method	256
Syntax.....	256
See Also.....	256
DateTimeExtension.Fmt_DD_MM_YYYY Method	257
Syntax.....	257
See Also.....	257
DateTimeExtension.Fmt_DD_MM_YYYY_HH_MM Method	258
Syntax.....	258
See Also.....	258
DateTimeExtension.Fmt_DD_MM_YYYY_HH_MM_SS Method	259
Syntax.....	259
See Also.....	259
DateTimeExtension.Fmt_HH_MM_SS Method	260
Syntax.....	260
See Also.....	260

DateTimeExtension.Fmt_YYYYMMDD Method	261
Syntax.....	261
See Also.....	261
DateTimeExtension.Fmt_YYYYMMDD_HHMMSS Method.....	262
Syntax.....	262
See Also.....	262
DateTimeExtension.Fmt_YYYYMMDD_HHMMSSFFF Method	263
Syntax.....	263
See Also.....	263
DateTimeExtension.Fmt_YYYYMMDDHHMMSS Method.....	264
Syntax.....	264
See Also.....	264
DbCommandExtension Class	265
Inheritance Hierarchy	265
Syntax.....	265
Methods.....	265
See Also.....	265
DbCommandExtension.DbCommandExtension Methods.....	266
Methods.....	266
See Also.....	266
DbCommandExtension.ResetParameters Method.....	267
Syntax.....	267
See Also.....	267
DbCommandExtension.SetNullableParamter Method.....	268
Overload List	268
See Also.....	268
DbCommandExtension.SetNullableParamter Method (DbCommand, Int32, Object)	269
Syntax.....	269
See Also.....	269
DbCommandExtension.SetNullableParamter Method (DbCommand, String, Object)	270
Syntax.....	270
See Also.....	270
DictionaryExtension Class	271

Inheritance Hierarchy	271
Syntax.....	271
Methods.....	271
See Also.....	271
DictionaryExtension.DictionaryExtension Methods	272
Methods.....	272
See Also.....	272
DictionaryExtension.ForEach Method	273
Overload List	273
See Also.....	273
DictionaryExtension.ForEach(<i>TKey</i> , <i>TValue</i>) Method (Dictionary(<i>TKey</i> , <i>TValue</i>), Action(<i>TKey</i> , <i>TValue</i>))	274
Syntax.....	274
See Also.....	274
DictionaryExtension.ForEach(<i>TKey</i> , <i>TValue</i>) Method (SortedDictionary(<i>TKey</i> , <i>TValue</i>), Action(<i>TKey</i> , <i>TValue</i>))	275
Syntax.....	275
See Also.....	275
DictionaryExtension.ToString(<i>TKey</i> , <i>TValue</i>) Method.....	276
Syntax.....	276
See Also.....	276
FileInfoExtension Class.....	277
Inheritance Hierarchy	277
Syntax.....	277
Methods.....	277
See Also.....	277
FileInfoExtension.FileInfoExtension Methods	278
Methods.....	278
See Also.....	278
FileInfoExtension.CopyTo Method.....	279
Overload List	279
See Also.....	279
FileInfoExtension.CopyTo Method (FileInfo, DirectoryInfo).....	280
Syntax.....	280

See Also.....	280
FileInfoExtension.CopyTo Method (FileInfo, DirectoryInfo, Boolean).....	281
Syntax.....	281
See Also.....	281
FileInfoExtension.GetFilenameWithoutExtension Method.....	282
Syntax.....	282
See Also.....	282
FileInfoExtension.GetFileSize Method	283
Syntax.....	283
See Also.....	283
FileInfoExtension.MoveTo Method	284
Syntax.....	284
See Also.....	284
IDataReaderExtension Class.....	285
Inheritance Hierarchy	285
Syntax.....	285
Methods.....	285
See Also.....	285
IDataReaderExtension.IDataReaderExtension Methods	286
Methods.....	286
See Also.....	286
IDataReaderExtension.GetDateTimeOrNull Method.....	287
Syntax.....	287
See Also.....	287
IDataReaderExtension.GetGeometryFromWKB Method	288
Syntax.....	288
See Also.....	288
IDataReaderExtension.GetInt32OrNull Method.....	289
Syntax.....	289
See Also.....	289
IDataReaderExtension.GetInt64OrNull Method.....	290
Syntax.....	290
See Also.....	290

IDataReaderExtension.GetLineStringFromWKB Method	291
Syntax.....	291
See Also.....	291
IDataReaderExtension.GetMultiPolygonFromWKB Method.....	292
Syntax.....	292
See Also.....	292
IDataReaderExtension.GetPointFromWKB Method.....	293
Syntax.....	293
See Also.....	293
IDataReaderExtension.GetPolygonFromWKB Method.....	294
Syntax.....	294
See Also.....	294
IDataReaderExtension.GetStringOrNull Method.....	295
Syntax.....	295
See Also.....	295
IDbConnectionExtension Class.....	296
Inheritance Hierarchy	296
Syntax.....	296
Methods.....	296
See Also.....	297
IDbConnectionExtension.IDbConnectionExtension Methods	298
Methods.....	298
See Also.....	298
IDbConnectionExtension.CloseIfOpen Method	299
Syntax.....	299
See Also.....	299
IDbConnectionExtension.ExecuteNonQuery Method	300
Overload List	300
See Also.....	300
IDbConnectionExtension.ExecuteNonQuery Method (IDbConnection, String, Object[])	301
Syntax.....	301
See Also.....	301

IDbConnectionExtension.ExecuteNonQuery Method (IDbConnection, Int32, Boolean, String, Object[])	302
Syntax.....	302
See Also.....	303
IDbConnectionExtension.ExecuteScalar Method	304
Overload List	304
See Also.....	304
IDbConnectionExtension.ExecuteScalar Method (IDbConnection, String, Object[]).....	305
Syntax.....	305
See Also.....	305
IDbConnectionExtension.ExecuteScalar Method (IDbConnection, Int32, String, Object[])	306
Syntax.....	306
See Also.....	306
IDbConnectionExtension.GetDictionary(<i>T1, T2</i>) Method	307
Syntax.....	307
See Also.....	307
IDbConnectionExtension.GetSortedDictionary(<i>T1, T2</i>) Method	308
Syntax.....	308
See Also.....	308
IDbConnectionExtension.SaveAsCSV Method	309
Syntax.....	309
See Also.....	309
IDbConnectionExtension.Select Method	310
Overload List	310
See Also.....	310
IDbConnectionExtension.Select Method (IDbConnection, String)	311
Syntax.....	311
See Also.....	311
IDbConnectionExtension.Select Method (IDbConnection, String, Object[])	312
Syntax.....	312
See Also.....	312
IDbConnectionExtension.SelectAsDataTable Method.....	313
Syntax.....	313

See Also.....	313
ListExtension Class	314
Inheritance Hierarchy	314
Syntax.....	314
Methods.....	314
See Also.....	314
ListExtension.ListExtension Methods	315
Methods.....	315
See Also.....	315
ListExtension.SaveAsCsv(<i>T</i>) Method	316
Syntax.....	316
Exceptions	316
See Also.....	316
ListExtension.SaveAsXml(<i>T</i>) Method	317
Syntax.....	317
See Also.....	317
RandomExtension Class	318
Inheritance Hierarchy	318
Syntax.....	318
Methods.....	318
See Also.....	319
RandomExtension.RandomExtension Methods	320
Methods.....	320
See Also.....	320
RandomExtension.NextAutoKennzeichen Method	321
Syntax.....	321
See Also.....	321
RandomExtension.NextBool Method	322
Syntax.....	322
See Also.....	322
RandomExtension.NextColor Method	323
Syntax.....	323
See Also.....	323

RandomExtension.NextDateTime Method	324
Overload List	324
See Also	324
RandomExtension.NextDateTime Method (Random, DateTimeKind)	325
Syntax	325
See Also	325
RandomExtension.NextDateTime Method (Random, DateTime, DateTime, DateTimeKind)	326
Syntax	326
See Also	326
RandomExtension.NextEnum Method	327
Overload List	327
See Also	327
RandomExtension.NextEnum(<i>T</i>) Method (Random)	328
Syntax	328
See Also	328
RandomExtension.NextEnum Method (Random, Type)	329
Syntax	329
See Also	329
RandomExtension.NextInt Method	330
Syntax	330
See Also	330
RandomExtension.NextLong Method	331
Syntax	331
See Also	331
RandomExtension.NextObject Method	332
Overload List	332
See Also	332
RandomExtension.NextObject(<i>T</i>) Method (Random, ICollection(<i>T</i>))	333
Syntax	333
See Also	333
RandomExtension.NextObject(<i>T</i>) Method (Random, IList(<i>T</i>))	334
Syntax	334
See Also	334

RandomExtension.NextSalt Method.....	335
Syntax.....	335
See Also.....	335
RandomExtension.NextString Method	336
Syntax.....	336
See Also.....	336
RandomExtension.NextUInt Method.....	337
Syntax.....	337
See Also.....	337
RandomExtension.NextULong Method	338
Syntax.....	338
See Also.....	338
SQLiteExtension Class	339
Inheritance Hierarchy	339
Syntax.....	339
Methods.....	339
See Also.....	339
SQLiteExtension.SQLiteExtension Methods.....	340
Methods.....	340
See Also.....	340
SQLiteExtension.Analyze Method.....	341
Syntax.....	341
See Also.....	341
SQLiteExtension.DropTable Method	342
Syntax.....	342
See Also.....	342
SQLiteExtension.GetLastPrimarykey Method.....	343
Syntax.....	343
See Also.....	343
SQLiteExtension.GetTableName Method	344
Syntax.....	344
See Also.....	344
SQLiteExtension.GetViewNames Method	345

Syntax.....	345
See Also.....	345
SQLiteExtension.PrepareInsertStatement Method	346
Syntax.....	346
See Also.....	346
SQLiteExtension.Reindex Method	347
Syntax.....	347
See Also.....	347
SQLiteExtension.TableExists Method	348
Syntax.....	348
See Also.....	348
SQLiteExtension.Truncate Method	349
Syntax.....	349
See Also.....	349
SQLiteExtension.Vacuum Method	350
Syntax.....	350
See Also.....	350
StringBuilderExtension Class.....	351
Inheritance Hierarchy	351
Syntax.....	351
Methods.....	351
See Also.....	351
StringBuilderExtension.StringBuilderExtension Methods	352
Methods.....	352
See Also.....	352
StringBuilderExtension.AppendLine Method	353
Syntax.....	353
See Also.....	353
StringExtension Class	354
Inheritance Hierarchy	354
Syntax.....	354
Methods.....	354
See Also.....	354

StringExtension.StringExtension Methods.....	355
Methods.....	355
See Also.....	355
StringExtension.Capitalize Method.....	356
Syntax.....	356
See Also.....	356
StringExtension.CapitalizeOnlyFirstLetter Method	357
Syntax.....	357
See Also.....	357
StringExtension.EqualsIgnoreCase Method.....	358
Syntax.....	358
See Also.....	358
StringExtension.IsEmpty Method	359
Syntax.....	359
See Also.....	359
StringExtension.IsNotNull Method	360
Syntax.....	360
See Also.....	360
StringExtension.RemoveQuotation Method.....	361
Syntax.....	361
See Also.....	361
StringExtension.ReplaceHtml Method.....	362
Syntax.....	362
See Also.....	362
StringExtension.ToColor Method.....	363
Syntax.....	363
Remarks	363
See Also.....	363
TimeSpanExtension Class.....	364
Inheritance Hierarchy	364
Syntax.....	364
Methods.....	364
See Also.....	364

TimeSpanExtension.TimeSpanExtension Methods.....	365
Methods.....	365
See Also.....	365
TimeSpanExtension.ToDateTime Method.....	366
Syntax.....	366
See Also.....	366
TimeSpanExtension.ToShortString Method.....	367
Syntax.....	367
See Also.....	367
TypeExtension Class.....	368
Inheritance Hierarchy	368
Syntax.....	368
Methods.....	368
See Also.....	368
TypeExtension.TypeExtension Methods.....	369
Methods.....	369
See Also.....	369
TypeExtension.DerivedFromType Method	370
Syntax.....	370
See Also.....	370
TypeExtension.ImplementsInterface Method	371
Syntax.....	371
See Also.....	371
XElementExtension Class	372
Inheritance Hierarchy	372
Syntax.....	372
Methods.....	372
See Also.....	374
XElementExtension.XElementExtension Methods	375
Methods.....	375
See Also.....	376
XElementExtension.GetBitmapSourceFromNode Method	377
Syntax.....	377

See Also.....	377
XElementExtension.GetBoolAttribute Method	378
Syntax.....	378
See Also.....	378
XElementExtension.GetBoolFromNode Method.....	379
Syntax.....	379
See Also.....	379
XElementExtension.GetColorFromNode Method.....	380
Syntax.....	380
See Also.....	380
XElementExtension.GetDateTimeAttribute Method	381
Syntax.....	381
See Also.....	381
XElementExtension.GetDateTimeFromNodeUTC Method	382
Syntax.....	382
See Also.....	382
XElementExtension.GetDirectoryInfoFromNode Method.....	383
Syntax.....	383
See Also.....	383
XElementExtension.GetDoubleAttribute Method	384
Syntax.....	384
See Also.....	384
XElementExtension.GetDoubleFromNode Method.....	385
Syntax.....	385
See Also.....	385
XElementExtension.GetDoubleFromNodeComma Method	386
Syntax.....	386
See Also.....	386
XElementExtension.GetDoubleFromNodePoint Method	387
Syntax.....	387
See Also.....	387
XElementExtension.GetEnumFromNode(<i>T</i>) Method	388
Syntax.....	388

See Also.....	388
XElementExtension.GetFileInfoFromNode Method	389
Syntax.....	389
See Also.....	389
XElementExtension.GetGuidFromNode Method.....	390
Syntax.....	390
See Also.....	390
XElementExtension.GetInt32Attribute Method	391
Syntax.....	391
See Also.....	391
XElementExtension.GetInt32FromNode Method.....	392
Syntax.....	392
See Also.....	392
XElementExtension.GetInt64Attribute Method	393
Syntax.....	393
See Also.....	393
XElementExtension.GetLongFromNode Method	394
Syntax.....	394
See Also.....	394
XElementExtension.GetProperty(<i>T</i>) Method	395
Syntax.....	395
Exceptions	395
See Also.....	395
XElementExtension.GetSingleAttribute Method	397
Syntax.....	397
See Also.....	397
XElementExtension.GetSingleFromNode Method.....	398
Syntax.....	398
See Also.....	398
XElementExtension.GetSingleFromNodeComma Method	399
Syntax.....	399
See Also.....	399
XElementExtension.GetSingleFromNodePoint Method	400

Syntax.....	400
See Also.....	400
XElementExtension.GetStringAttribute Method	401
Syntax.....	401
See Also.....	401
XElementExtension.GetStringFromCData Method.....	402
Syntax.....	402
See Also.....	402
XElementExtension.GetStringFromNode Method.....	403
Overload List	403
See Also.....	403
XElementExtension.GetStringFromNode Method (XElement, String).....	404
Syntax.....	404
See Also.....	404
XElementExtension.GetStringFromNode Method (XElement, String, String)	405
Syntax.....	405
See Also.....	405
XElementExtension.GetUInt32Attribute Method.....	406
Syntax.....	406
See Also.....	406
XElementExtension.GetUInt32FromNode Method	407
Syntax.....	407
See Also.....	407
XElementExtension.Get XElement Method.....	408
Syntax.....	408
See Also.....	408
XElementExtension.SaveDefault Method.....	409
Syntax.....	409
See Also.....	409
XElementExtension.ToString Method.....	410
Syntax.....	410
See Also.....	410
SIGENCEScenarioTool.Interfaces Namespace.....	411

Interfaces	411
IXmlExport Interface	412
Syntax.....	412
Methods.....	412
See Also.....	412
IXmlExport.IXmlExport Methods	413
Methods.....	413
See Also.....	413
IXmlExport.ToXml Method.....	414
Syntax.....	414
See Also.....	414
SIGENCEScenarioTool.Models Namespace.....	415
Classes.....	415
Enumerations.....	415
AbstractModelBase Class.....	416
Inheritance Hierarchy	416
Syntax.....	416
Constructors.....	416
Methods.....	416
Events.....	416
See Also.....	416
AbstractModelBase Constructor.....	418
Syntax.....	418
See Also.....	418
AbstractModelBase.AbstractModelBase Methods	419
Methods.....	419
See Also.....	419
AbstractModelBase.FirePropertyChanged Method	420
Syntax.....	420
See Also.....	420
AbstractModelBase.AbstractModelBase Events	421
Events.....	421
See Also.....	421

AbstractModelBase.PropertyChanged Event	422
Syntax.....	422
See Also.....	422
AntennaType Enumeration.....	423
Syntax.....	423
Members.....	423
See Also.....	423
DeviceSource Enumeration.....	424
Syntax.....	424
Members.....	424
See Also.....	424
DeviceType Enumeration.....	425
Syntax.....	425
Members.....	425
See Also.....	425
GeoLocalizationResult Class.....	426
Inheritance Hierarchy	426
Syntax.....	426
Constructors.....	426
Properties.....	426
Methods.....	426
Events.....	427
Fields	427
See Also.....	427
GeoLocalizationResult Constructor.....	428
Syntax.....	428
See Also.....	428
GeoLocalizationResult.GeoLocalizationResult Properties	429
Properties.....	429
See Also.....	429
GeoLocalizationResult.Altitude Property.....	430
Syntax.....	430
See Also.....	430

GeoLocalizationResult.Id Property.....	431
Syntax.....	431
See Also.....	431
GeoLocalizationResult.Latitude Property	432
Syntax.....	432
See Also.....	432
GeoLocalizationResult.LocalizationTime Property	433
Syntax.....	433
See Also.....	433
GeoLocalizationResult.Longitude Property	434
Syntax.....	434
See Also.....	434
GeoLocalizationResult.PrimaryKey Property	435
Syntax.....	435
See Also.....	435
GeoLocalizationResult.GeoLocalizationResult Methods	436
Methods.....	436
See Also.....	436
GeoLocalizationResult.Clone Method	437
Syntax.....	437
See Also.....	437
GeoLocalizationResult.Equals Method	438
Overload List	438
See Also.....	438
GeoLocalizationResult.Equals Method (GeoLocalizationResult)	439
Syntax.....	439
See Also.....	439
GeoLocalizationResult.FromXml Method	440
Syntax.....	440
See Also.....	440
GeoLocalizationResult.ToXml Method.....	441
Syntax.....	441
See Also.....	441

GeoLocalizationResult.GeoLocalizationResult Events	442
Events.....	442
See Also.....	442
GeoLocalizationResult.GeoLocalizationResult Fields.....	443
Fields	443
See Also.....	443
GeoLocalizationResult.ALTITUDE Field	444
Syntax.....	444
See Also.....	444
GeoLocalizationResult.DEFAULT_ALTITUDE Field.....	445
Syntax.....	445
See Also.....	445
GeoLocalizationResult.DEFAULT_ID Field.....	446
Syntax.....	446
See Also.....	446
GeoLocalizationResult.DEFAULT_LATITUDE Field.....	447
Syntax.....	447
See Also.....	447
GeoLocalizationResult.DEFAULT_LOCALIZATIONTIME Field	448
Syntax.....	448
See Also.....	448
GeoLocalizationResult.DEFAULT_LONGITUDE Field	449
Syntax.....	449
See Also.....	449
GeoLocalizationResult.DEFAULT_PRIMARYKEY Field	450
Syntax.....	450
See Also.....	450
GeoLocalizationResult.ID Field.....	451
Syntax.....	451
See Also.....	451
GeoLocalizationResult.LATITUDE Field	452
Syntax.....	452
See Also.....	452

GeoLocalizationResult.LOCALIZATIONTIME Field.....	453
Syntax.....	453
See Also.....	453
GeoLocalizationResult.LONGITUDE Field.....	454
Syntax.....	454
See Also.....	454
GeoLocalizationResult.PRIMARYKEY Field.....	455
Syntax.....	455
See Also.....	455
GeoLocalizationResultList Class.....	456
Inheritance Hierarchy	456
Syntax.....	456
Constructors.....	456
Properties.....	456
Methods.....	456
Extension Methods	460
See Also.....	460
GeoLocalizationResultList Constructor	461
Overload List	461
See Also.....	461
GeoLocalizationResultList Constructor	462
Syntax.....	462
See Also.....	462
GeoLocalizationResultList Constructor (Int32)	463
Syntax.....	463
See Also.....	463
GeoLocalizationResultList Constructor (IEnumerable(GeoLocalizationResult)).....	464
Syntax.....	464
See Also.....	464
GeoLocalizationResultList.GeoLocalizationResultList Properties	465
Properties.....	465
See Also.....	465
GeoLocalizationResultList.GeoLocalizationResultList Methods	466

Methods.....	466
Extension Methods	469
See Also.....	469
RFDevice Class.....	470
Inheritance Hierarchy	470
Syntax.....	470
Constructors.....	470
Properties.....	470
Methods.....	471
Events.....	472
Fields	472
Extension Methods	474
See Also.....	475
RFDevice Constructor.....	476
Syntax.....	476
See Also.....	476
RFDevice.RFDevice Properties	477
Properties.....	477
See Also.....	478
RFDevice.Altitude Property.....	479
Syntax.....	479
See Also.....	479
RFDevice.AntennaType Property.....	480
Syntax.....	480
See Also	480
RFDevice.Bandwidth_Hz Property	481
Syntax.....	481
See Also	481
RFDevice.CenterFrequency_Hz Property.....	482
Syntax.....	482
See Also	482
RFDevice.DeviceSource Property.....	483
Syntax.....	483

See Also.....	483
RFDevice.Gain_dB Property.....	484
Syntax.....	484
See Also.....	484
RFDevice.Id Property	485
Syntax.....	485
See Also.....	485
RFDevice.Latitude Property	486
Syntax.....	486
See Also.....	486
RFDevice.Longitude Property	487
Syntax.....	487
See Also.....	487
RFDevice.Name Property	488
Syntax.....	488
See Also.....	488
RFDevice.Pitch Property	489
Syntax.....	489
See Also.....	489
RFDevice.PrimaryKey Property	490
Syntax.....	490
See Also.....	490
RFDevice.Remark Property	491
Syntax.....	491
See Also.....	491
RFDevice.Roll Property	492
Syntax.....	492
See Also.....	492
RFDevice.RxTxType Property	493
Syntax.....	493
See Also.....	493
RFDevice.SignalToNoiseRatio_dB Property	494
Syntax.....	494

See Also.....	494
RFDevice.StartTime Property.....	495
Syntax.....	495
See Also.....	495
RFDevice.XPos Property.....	496
Syntax.....	496
See Also.....	496
RFDevice.Yaw Property.....	497
Syntax.....	497
See Also.....	497
RFDevice.YPos Property.....	498
Syntax.....	498
See Also.....	498
RFDevice.ZPos Property.....	499
Syntax.....	499
See Also.....	499
RFDevice.RFDevice Methods	500
Methods.....	500
Extension Methods	500
See Also.....	501
RFDevice.Clone Method	502
Syntax.....	502
See Also.....	502
RFDevice.Equals Method	503
Overload List	503
See Also.....	503
RFDevice.Equals Method (RFDevice)	504
Syntax.....	504
See Also.....	504
RFDevice.FromXml Method	505
Syntax.....	505
See Also.....	505
RFDevice.ToString Method	506

Syntax.....	506
See Also.....	506
RFDevice.ToXml Method	507
Syntax.....	507
See Also.....	507
RFDevice.Validate Method	508
Syntax.....	508
See Also.....	508
RFDevice.RFDevice Events	509
Events.....	509
See Also.....	509
RFDevice.RFDevice Fields.....	510
Fields	510
See Also.....	512
RFDevice.ALTITUDE Field	513
Syntax.....	513
See Also.....	513
RFDevice.ANTENNATYPE Field.....	514
Syntax.....	514
See Also.....	514
RFDevice.BANDWIDTH_HZ Field.....	515
Syntax.....	515
See Also.....	515
RFDevice.CENTERFREQUENCY_HZ Field	516
Syntax.....	516
See Also.....	516
RFDevice.DEFAULT_ALTITUDE Field	517
Syntax.....	517
See Also.....	517
RFDevice.DEFAULT_ANTENNATYPE Field	518
Syntax.....	518
See Also.....	518
RFDevice.DEFAULT_BANDWIDTH_HZ Field	519

Syntax.....	519
See Also.....	519
RFDevice.DEFAULT_CENTERFREQUENCY_HZ Field	520
Syntax.....	520
See Also.....	520
RFDevice.DEFAULT_DEVICESOURCE Field	521
Syntax.....	521
See Also.....	521
RFDevice.DEFAULT_GAIN_DB Field	522
Syntax.....	522
See Also.....	522
RFDevice.DEFAULT_ID Field	523
Syntax.....	523
See Also.....	523
RFDevice.DEFAULT_LATITUDE Field	524
Syntax.....	524
See Also.....	524
RFDevice.DEFAULT_LONGITUDE Field	525
Syntax.....	525
See Also.....	525
RFDevice.DEFAULT_NAME Field	526
Syntax.....	526
See Also.....	526
RFDevice.DEFAULT_PITCH Field.....	527
Syntax.....	527
See Also.....	527
RFDevice.DEFAULT_PRIMARYKEY Field	528
Syntax.....	528
See Also.....	528
RFDevice.DEFAULT_REMARK Field	529
Syntax.....	529
See Also.....	529
RFDevice.DEFAULT_ROLL Field	530

Syntax.....	530
See Also.....	530
RFDevice.DEFAULT_RXTXTYPE Field	531
Syntax.....	531
See Also.....	531
RFDevice.DEFAULT_SIGNALTONOISERATIO_DB Field	532
Syntax.....	532
See Also.....	532
RFDevice.DEFAULT_STARTTIME Field.....	533
Syntax.....	533
See Also.....	533
RFDevice.DEFAULT_XPOS Field.....	534
Syntax.....	534
See Also.....	534
RFDevice.DEFAULT_YAW Field	535
Syntax.....	535
See Also.....	535
RFDevice.DEFAULT_YPOS Field.....	536
Syntax.....	536
See Also.....	536
RFDevice.DEFAULT_ZPOS Field.....	537
Syntax.....	537
See Also.....	537
RFDevice.DEVICESOURCE Field.....	538
Syntax.....	538
See Also.....	538
RFDevice.GAIN_DB Field.....	539
Syntax.....	539
See Also.....	539
RFDevice.ID Field.....	540
Syntax.....	540
See Also.....	540
RFDevice.LATITUDE Field	541

Syntax.....	541
See Also.....	541
RFDevice.LONGITUDE Field.....	542
Syntax.....	542
See Also.....	542
RFDevice.NAME Field.....	543
Syntax.....	543
See Also.....	543
RFDevice.PITCH Field	544
Syntax.....	544
See Also.....	544
RFDevice.PRIMARYKEY Field	545
Syntax.....	545
See Also.....	545
RFDevice.REMARK Field	546
Syntax.....	546
See Also.....	546
RFDevice.ROLL Field.....	547
Syntax.....	547
See Also.....	547
RFDevice.RXTXTYPE Field.....	548
Syntax.....	548
See Also.....	548
RFDevice.SIGNALTONOISERATIO_DB Field.....	549
Syntax.....	549
See Also.....	549
RFDevice.STARTTIME Field	550
Syntax.....	550
See Also.....	550
RFDevice.XPOS Field	551
Syntax.....	551
See Also.....	551
RFDevice.YAW Field	552

Syntax.....	552
See Also.....	552
RFDevice.YPOS Field.....	553
Syntax.....	553
See Also.....	553
RFDevice.ZPOS Field.....	554
Syntax.....	554
See Also.....	554
RFDeviceExtensions Class	555
Inheritance Hierarchy	555
Syntax.....	555
Methods.....	555
See Also.....	556
RFDeviceExtensions.RFDeviceExtensions Methods.....	557
Methods.....	557
See Also.....	557
RFDeviceExtensions.WithAltitude Method.....	558
Syntax.....	558
See Also.....	558
RFDeviceExtensions.WithAntennaType Method.....	559
Syntax.....	559
See Also.....	559
RFDeviceExtensions.WithBandwidth_Hz Method.....	560
Syntax.....	560
See Also.....	560
RFDeviceExtensions.WithCenterFrequency_Hz Method.....	561
Syntax.....	561
See Also.....	561
RFDeviceExtensions.WithDeviceSource Method.....	562
Syntax.....	562
See Also.....	562
RFDeviceExtensions.WithGain_dB Method	563
Syntax.....	563

See Also.....	563
RFDeviceExtensions.WithId Method	564
Syntax.....	564
See Also.....	564
RFDeviceExtensions.WithLatitude Method	565
Syntax.....	565
See Also.....	565
RFDeviceExtensions.WithLongitude Method	566
Syntax.....	566
See Also.....	566
RFDeviceExtensions.WithName Method.....	567
Syntax.....	567
See Also.....	567
RFDeviceExtensions.WithPitch Method	568
Syntax.....	568
See Also.....	568
RFDeviceExtensions.WithPrimaryKey Method	569
Syntax.....	569
See Also.....	569
RFDeviceExtensions.WithRemark Method	570
Syntax.....	570
See Also.....	570
RFDeviceExtensions.WithRoll Method	571
Syntax.....	571
See Also.....	571
RFDeviceExtensions.WithRxTxType Method	572
Syntax.....	572
See Also.....	572
RFDeviceExtensions.WithSignalToNoiseRatio_dB Method	573
Syntax.....	573
See Also.....	573
RFDeviceExtensions.WithStartTime Method.....	574
Syntax.....	574

See Also.....	574
RFDeviceExtensions.WithXPos Method.....	575
Syntax.....	575
See Also.....	575
RFDeviceExtensions.WithYaw Method.....	576
Syntax.....	576
See Also.....	576
RFDeviceExtensions.WithYPos Method.....	577
Syntax.....	577
See Also.....	577
RFDeviceExtensions.WithZPos Method.....	578
Syntax.....	578
See Also.....	578
RFDeviceList Class	579
Inheritance Hierarchy	579
Syntax.....	579
Constructors.....	579
Properties.....	579
Methods.....	579
Extension Methods	583
See Also.....	583
RFDeviceList Constructor	584
Overload List	584
See Also.....	584
RFDeviceList Constructor	585
Syntax.....	585
See Also.....	585
RFDeviceList Constructor (Int32)	586
Syntax.....	586
See Also.....	586
RFDeviceList Constructor (IEnumerable(RFDevice)).....	587
Syntax.....	587
See Also.....	587

RFDeviceList.RFDeviceList Properties	588
Properties.....	588
See Also.....	588
RFDeviceList.RFDeviceList Methods	589
Methods.....	589
Extension Methods	592
See Also.....	592
RFDeviceList.CreateRandomizedRFDeviceList Method	593
Syntax.....	593
See Also.....	593
RFDeviceTooltips Class.....	594
Inheritance Hierarchy	594
Syntax.....	594
Constructors.....	594
Properties.....	594
Methods.....	595
See Also.....	595
RFDeviceTooltips Constructor.....	596
Syntax.....	596
See Also.....	596
RFDeviceTooltips.RFDeviceTooltips Properties	597
Properties.....	597
See Also.....	597
RFDeviceTooltips.TOOLTIP_ALTITUDE Property	598
Syntax.....	598
See Also.....	598
RFDeviceTooltips.TOOLTIP_ANTENNATYPE Property.....	599
Syntax.....	599
See Also.....	599
RFDeviceTooltips.TOOLTIP_BANDWIDTH_HZ Property	600
Syntax.....	600
See Also.....	600
RFDeviceTooltips.TOOLTIP_CENTERFREQUENCY_HZ Property.....	601

Syntax.....	601
See Also.....	601
RFDeviceToolips.TOOLTIP_DEVICESOURCE Property.....	602
Syntax.....	602
See Also.....	602
RFDeviceToolips.TOOLTIP_GAIN_DB Property.....	603
Syntax.....	603
See Also.....	603
RFDeviceToolips.TOOLTIP_ID Property	604
Syntax.....	604
See Also.....	604
RFDeviceToolips.TOOLTIP_LATITUDE Property.....	605
Syntax.....	605
See Also.....	605
RFDeviceToolips.TOOLTIP_LONGITUDE Property	606
Syntax.....	606
See Also.....	606
RFDeviceToolips.TOOLTIP_NAME Property	607
Syntax.....	607
See Also.....	607
RFDeviceToolips.TOOLTIP_PITCH Property	608
Syntax.....	608
See Also.....	608
RFDeviceToolips.TOOLTIP_PRIMARYKEY Property.....	609
Syntax.....	609
See Also.....	609
RFDeviceToolips.TOOLTIP_REMARK Property.....	610
Syntax.....	610
See Also.....	610
RFDeviceToolips.TOOLTIP_ROLL Property.....	611
Syntax.....	611
See Also.....	611
RFDeviceToolips.TOOLTIP_RXTXTYPE Property.....	612

Syntax.....	612
See Also.....	612
RFDeviceToolips.TOOLTIP_SIGNALTONOISERATIO_DB Property.....	613
Syntax.....	613
See Also.....	613
RFDeviceToolips.TOOLTIP_STARTTIME Property	614
Syntax.....	614
See Also.....	614
RFDeviceToolips.TOOLTIP_XPOS Property	615
Syntax.....	615
See Also.....	615
RFDeviceToolips.TOOLTIP_YAW Property.....	616
Syntax.....	616
See Also.....	616
RFDeviceToolips.TOOLTIP_YPOS Property	617
Syntax.....	617
See Also.....	617
RFDeviceToolips.TOOLTIP_ZPOS Property	618
Syntax.....	618
See Also.....	618
RFDeviceToolips.RFDeviceToolips Methods	619
Methods.....	619
See Also.....	619
Servity Enumeration	620
Syntax.....	620
Members.....	620
See Also.....	620
SIGENCEScenarioTool.Models.RxTxTypes Namespace.....	621
Classes.....	621
RxTxType Class	622
Inheritance Hierarchy	622
Syntax.....	622
Properties.....	622

Methods.....	622
Operators.....	622
See Also.....	622
RxTxType.RxTxType Properties.....	623
Properties.....	623
See Also.....	623
RxTxType.Name Property	624
Syntax.....	624
See Also.....	624
RxTxType.Remark Property.....	625
Syntax.....	625
See Also.....	625
RxTxType.Value Property.....	626
Syntax.....	626
See Also.....	626
RxTxType.RxTxType Methods	627
Methods.....	627
See Also.....	627
RxTxType.ToString Method.....	628
Syntax.....	628
See Also.....	628
RxTxType.RxTxType Type Conversions	629
Operators.....	629
See Also.....	629
RxTxType Implicit Conversion (RxTxType to Int32).....	630
Syntax.....	630
See Also.....	630
RxTxTypes Class.....	631
Inheritance Hierarchy	631
Syntax.....	631
Properties.....	631
Methods.....	632
See Also.....	632

RxTxTypes.RxTxTypes Properties.....	633
Properties.....	633
See Also.....	633
RxTxTypes.AIS Property	634
Syntax.....	634
See Also.....	634
RxTxTypes.B200mini Property	635
Syntax.....	635
See Also.....	635
RxTxTypes.FMBroadcast Property	636
Syntax.....	636
See Also.....	636
RxTxTypes.GPSJammer Property	637
Syntax.....	637
See Also.....	637
RxTxTypes.HackRF Property.....	638
Syntax.....	638
See Also.....	638
RxTxTypes.IdealSDR Property	639
Syntax.....	639
See Also.....	639
RxTxTypes.Iridium Property	640
Syntax.....	640
See Also.....	640
RxTxTypes.LTE Property	641
Syntax.....	641
See Also.....	641
RxTxTypes.NFMRadio Property	642
Syntax.....	642
See Also.....	642
RxTxTypes.QPSK Property	643
Syntax.....	643
See Also.....	643

RxTxTypes.SIN Property	644
Syntax.....	644
See Also.....	644
RxTxTypes.TwinRx Property.....	645
Syntax.....	645
See Also.....	645
RxTxTypes.Unknown Property.....	646
Syntax.....	646
See Also.....	646
RxTxTypes.Values Property.....	647
Syntax.....	647
See Also.....	647
RxTxTypes.RxTxTypes Methods	648
Methods.....	648
See Also.....	648
RxTxTypes.FromInt Method.....	649
Syntax.....	649
Remarks	649
See Also.....	649
RxTxTypes.FromString Method.....	650
Syntax.....	650
See Also.....	650
SIGENCEScenarioTool.Models.Validation Namespace	651
Classes.....	651
ValidationResult Class	652
Inheritance Hierarchy	652
Syntax.....	652
Constructors.....	652
Properties.....	652
Methods.....	652
See Also.....	652
ValidationResult Constructor.....	654
Syntax.....	654

See Also.....	654
ValidationResult.ValidationResult Properties.....	655
Properties.....	655
See Also.....	655
ValidationResult.Id Property.....	656
Syntax.....	656
See Also.....	656
ValidationResult.Message Property.....	657
Syntax.....	657
See Also.....	657
ValidationResult.PropertyName Property	658
Syntax.....	658
See Also	658
ValidationResult.Servity Property.....	659
Syntax.....	659
See Also	659
ValidationResult.Source Property.....	660
Syntax.....	660
See Also	660
ValidationResult.Timestamp Property.....	661
Syntax.....	661
See Also	661
ValidationResult.Value Property.....	662
Syntax.....	662
See Also	662
ValidationResult.ValidationResult Methods	663
Methods.....	663
See Also	663
ValidationResultList Class	664
Inheritance Hierarchy	664
Syntax.....	664
Constructors.....	664
Properties.....	664

Methods.....	664
Extension Methods	668
See Also.....	668
ValidationResultList Constructor	669
Syntax.....	669
See Also.....	669
ValidationResultList.ValidationResultList Properties.....	670
Properties.....	670
See Also.....	670
ValidationResultList.Empty Property	671
Syntax.....	671
See Also.....	671
ValidationResultList.ValidationResultList Methods.....	672
Methods.....	672
Extension Methods	675
See Also.....	675
ValidationResultList.Add Method	676
Overload List	676
See Also.....	676
ValidationResultList.Add Method (Servity, String, Object, String, Object).....	677
Syntax.....	677
See Also.....	677
SIGENCEScenarioTool.Tools Namespace	678
Classes.....	678
Enumerations.....	678
Blink Class.....	679
Inheritance Hierarchy	679
Syntax.....	679
Methods.....	679
See Also.....	679
Blink.Blink Methods	680
Methods.....	680
See Also.....	680

Blink.FadeWhiteToBlack Method	681
Syntax.....	681
See Also.....	681
Blink.Off Method.....	682
Syntax.....	682
See Also.....	682
Blink.On Method.....	683
Syntax.....	683
See Also.....	683
Blink.SetColor Method.....	684
Overload List	684
See Also.....	684
BlinkSetColor Method (Color).....	685
Syntax.....	685
See Also.....	685
BlinkSetColor Method (Int32, Int32, Int32)	686
Syntax.....	686
See Also.....	686
Blink.Show Method.....	687
Syntax.....	687
See Also.....	687
Blink.Test Method.....	688
Syntax.....	688
See Also.....	688
GeoHelper Class	689
Inheritance Hierarchy	689
Syntax.....	689
Methods.....	689
Fields	689
See Also.....	689
GeoHelper.GeoHelper Methods	690
Methods.....	690
See Also.....	690

GeoHelper.CoordinateToPointLatLng Method	691
Syntax.....	691
See Also.....	691
GeoHelper.CreatePolygon Method	692
Syntax.....	692
See Also.....	692
GeoHelper.GeometryToString Method	693
Syntax.....	693
See Also.....	693
GeoHelper.StringToGeometry Method	694
Syntax.....	694
See Also.....	694
GeoHelper.GeoHelper Fields	695
Fields	695
See Also.....	695
GeoHelper.GERMANY_CENTERPOINT Field.....	696
Syntax.....	696
See Also.....	696
GeoTag Enumeration	697
Syntax.....	697
Members.....	697
See Also.....	697
Highway Enumeration.....	698
Syntax.....	698
Members.....	698
See Also.....	698
MB Class.....	699
Inheritance Hierarchy	699
Syntax.....	699
Methods.....	699
See Also.....	699
MB.MB Methods.....	700
Methods.....	700

See Also.....	700
MB.Error Method.....	701
Syntax.....	701
See Also.....	701
MB.HerelAm Method.....	702
Syntax.....	702
See Also.....	702
MB.Information Method.....	703
Overload List	703
See Also.....	703
MB.Information Method (String).....	704
Syntax.....	704
See Also.....	704
MB.Information Method (String, Object[]).....	705
Syntax.....	705
See Also.....	705
MB.NotYetImplemented Method.....	706
Syntax.....	706
See Also.....	706
MB.Warning Method	707
Overload List	707
See Also.....	707
MB.Warning Method (String)	708
Syntax.....	708
See Also.....	708
MB.Warning Method (String, Object[])	709
Syntax.....	709
See Also.....	709
PythonSyntaxModeFileProvider Class	710
Inheritance Hierarchy	710
Syntax.....	710
Constructors.....	710
Properties.....	710

Methods.....	710
See Also.....	710
PythonSyntaxModeFileProvider Constructor	711
Syntax.....	711
See Also.....	711
PythonSyntaxModeFileProvider.PythonSyntaxModeFileProvider Properties	712
Properties.....	712
See Also.....	712
PythonSyntaxModeFileProvider.SyntaxModes Property	713
Syntax.....	713
See Also.....	713
PythonSyntaxModeFileProvider.PythonSyntaxModeFileProvider Methods.....	714
Methods.....	714
See Also.....	714
PythonSyntaxModeFileProvider.GetSyntaxModeFile Method.....	715
Syntax.....	715
See Also.....	715
PythonSyntaxModeFileProvider.UpdateSyntaxModeList Method.....	716
Syntax.....	716
See Also.....	716
Speech Class.....	717
Inheritance Hierarchy	717
Syntax.....	717
Constructors.....	717
Properties.....	717
Methods.....	717
See Also.....	717
Speech Constructor.....	718
Syntax.....	718
See Also.....	718
Speech.Speech Properties	719
Properties.....	719
See Also.....	719

Speech.State Property	720
Syntax.....	720
See Also.....	720
Speech.Speech Methods.....	721
Methods.....	721
See Also.....	721
Speech.Dispose Method	722
Syntax.....	722
See Also.....	722
Speech.Say Method	723
Syntax.....	723
See Also.....	723
Speech.Speak Method	724
Syntax.....	724
See Also.....	724
Tool Class	725
Inheritance Hierarchy	725
Syntax.....	725
Properties.....	725
Methods.....	725
Fields	725
See Also.....	726
Tool.Tool Properties.....	727
Properties.....	727
See Also.....	727
Tool.ProductName Property	728
Syntax.....	728
See Also.....	728
Tool.ProductTitle Property	729
Syntax.....	729
See Also.....	729
Tool.StartupPath Property.....	730
Syntax.....	730

See Also.....	730
Tool.Version Property.....	731
Syntax.....	731
See Also.....	731
Tool.Tool Methods.....	732
Methods.....	732
See Also.....	732
Tool.GetGrad Method.....	733
Syntax.....	733
See Also.....	733
Tool.GetGradMinutesSeconds Method.....	734
Syntax.....	734
See Also.....	734
Tool.GetHumanDistance Method.....	735
Syntax.....	735
See Also.....	735
Tool.GetHumanSize Method.....	736
Syntax.....	736
See Also.....	736
Tool.ReadResourceAsString Method	737
Syntax.....	737
See Also.....	737
Tool.Tool Fields	738
Fields	738
See Also.....	738
Tool.ALLCHARS Field	739
Syntax.....	739
See Also.....	739
Tool.ALLPANGRAMS Field	740
Syntax.....	740
See Also.....	740
Tool.FOX Field	741
Syntax.....	741

See Also.....	741
Tool.FRANZ Field	742
Syntax.....	742
See Also.....	742
Tool.WILFRIED Field	743
Syntax.....	743
See Also.....	743
Tool.XYLOPHONMUSIK Field.....	744
Syntax.....	744
See Also.....	744
Windows Class	745
Inheritance Hierarchy	745
Syntax.....	745
Methods.....	745
See Also.....	745
Windows.Windows Methods.....	746
Methods.....	746
See Also.....	746
Windows.GetWPFScreenshot Method	747
Syntax.....	747
See Also.....	747
Windows.OpenWebAdress Method	748
Syntax.....	748
See Also.....	748
Windows.OpenWithDefaultApplication Method	749
Overload List	749
See Also.....	749
Windows.OpenWithDefaultApplication Method (FileInfo).....	750
Syntax.....	750
See Also.....	750
Windows.OpenWithDefaultApplication Method (String).....	751
Syntax.....	751
See Also.....	751

SIGENCE Scenario Tool Library

Windows.SaveWPFScreenshot Method	752
Syntax.....	752
See Also.....	752

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: 15.0.0.0 (15)

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: 15.0.0.0 (15)

Syntax

C#

```
public static DbType GetDbType(  
    string strSqlType  
)
```

Parameters

strSqlType

Type: [System.String](#)

Type of the string SQL.

Return Value

Type: [DbType](#)

See Also

[SQLiteHelper Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

SQLiteHelper.GetNativeType Method

Gets the type of the native.

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

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

Syntax

C#

```
public static Type GetNativeType(  
    string strSqlType  
)
```

Parameters

strSqlType

Type: [System.String](#)

Type of the string SQL.

Return Value

Type: [Type](#)

See Also

[SQLiteHelper Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

SQLiteHelper.GetSQLiteColumn Method

Gets the sq lite column.

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

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

Syntax

C#

```
public static string GetSQLiteColumn(  
    Type t  
)
```

Parameters

t

Type: [System.Type](#)

The t.

Return Value

Type: [String](#)

See Also

[SQLiteHelper Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

SQLiteHelper.GetSQLiteParameter Method

Gets the sq lite parameter.

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

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

Syntax

C#

```
public static SQLiteParameter GetSQLiteParameter(  
    PropertyInfo pi  
)
```

Parameters

pi

Type: [System.Reflection.PropertyInfo](#)

The pi.

Return Value

Type: **SQLiteParameter**

See Also

[SQLiteHelper Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

SQLiteHelper.SQLiteHelper Fields

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

Fields

	Name	Description
 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: 15.0.0.0 (15)

Syntax

C#

```
public static readonly Dictionary<Type, Tuple<string, DbType, bool>>
TypeMapping
```

Field Value

Type: [Dictionary\(Type, Tuple\(String, DbType, Boolean\)\)](#)

See Also

[SQLiteHelper Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

SQLiteMemoryDatabase Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Database.SQLite.SQLiteMemoryDatabase

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

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

Syntax

C#

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

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

Constructors

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public SQLiteMemoryDatabase()
```

See Also

[SQLiteMemoryDatabase Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

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

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

Properties

	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: 15.0.0.0 (15)

Syntax

C#

```
public SQLiteConnection Connection { get; }
```

Property Value

Type: **SQLiteConnection**

The connection.

See Also

[SQLiteMemoryDatabase Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

SQLiteMemoryDatabase.SQLiteMemoryDatabase Methods

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

Methods

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public void Dispose()
```

Implements

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

See Also

[SQLiteMemoryDatabase Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

SQLiteMemoryDatabase.Finalize Method

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

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

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

Syntax

C#

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

Implements

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

See Also

[SQLiteMemoryDatabase Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

SQLiteMemoryDatabase.Load Method

Overload List

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public bool Load(  
    FileInfo fi  
)
```

Parameters

fi

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

The fi.

Return Value

Type: [Boolean](#)

See Also

[SQLiteMemoryDatabase Class](#)

[Load Overload](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

SQLiteMemoryDatabase.Load Method (String)

Loads the specified string filename.

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

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

Syntax

C#

```
public bool Load(  
    string strFilename  
)
```

Parameters

strFilename

Type: [System.String](#)

The string filename.

Return Value

Type: [Boolean](#)

See Also

[SQLiteMemoryDatabase Class](#)

[Load Overload](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

SQLiteMemoryDatabase.Save Method

Overload List

	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: 15.0.0.0 (15)

Syntax

C#

```
public bool Save(  
    FileInfo fi,  
    bool bOverWrite = true,  
    bool bCleanWrite = true  
)
```

Parameters

fi

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

The fi.

bOverWrite (Optional)

Type: [System.Boolean](#)

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

bCleanWrite (Optional)

Type: [System.Boolean](#)

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

Return Value

Type: [Boolean](#)

See Also

[SQLiteMemoryDatabase Class](#)

[Save Overload](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

SQLiteMemoryDatabase.Save Method (String, Boolean, Boolean)

Saves the specified string filename.

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

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

Syntax

C#

```
public bool Save(  
    string strFilename,  
    bool bOverWrite = true,  
    bool bCleanWrite = true  
)
```

Parameters

strFilename

Type: [System.String](#)

The string filename.

bOverWrite (Optional)

Type: [System.Boolean](#)

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

bCleanWrite (Optional)

Type: [System.Boolean](#)

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

Return Value

Type: [Boolean](#)

See Also

[SQLiteMemoryDatabase Class](#)

[Save Overload](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

SQLiteMemoryDatabase.SQLiteMemoryDatabase Type Conversions

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

Operators

	Name	Description
 	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: 15.0.0.0 (15)

Syntax

C#

```
public static implicit operator SQLiteConnection (
    SQLiteMemoryDatabase memdb
)
```

Parameters

memdb

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

The memdb.

Return Value

Type: [SQLiteConnection](#)

The result of the conversion.

See Also

[SQLiteMemoryDatabase Class](#)

[SIGENCEScenarioTool.Database.SQLite Namespace](#)

SIGENCEScenarioTool.Datatypes Namespace

Classes

	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: 15.0.0.0 (15)

Syntax

C#

```
public abstract class DataTypeBase<T>
where T : Object, IComparable<T>, IEquatable<T>
```

Type Parameters

T

The `DataTypeBase(T)` type exposes the following members.

Constructors

	Name	Description
	DataTypeBase(T)	Initializes a new instance of the <code>DataTypeBase(T)</code> 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: 15.0.0.0 (15)

Syntax

C#

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

Parameters

value

Type: *T*

The value.

See Also

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

[SIGENCEScenarioTool.Datatypes Namespace](#)

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

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

Properties

	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: 15.0.0.0 (15)

Syntax

C#

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

Property Value

Type: *T*

The value in it's default SI Einheit.

See Also

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

[SIGENCEScenarioTool.Datatypes Namespace](#)

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

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

Methods

	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: 15.0.0.0 (15)

Syntax

C#

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

Return Value

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

true if this instance is valid; otherwise, false.

Remarks

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

See Also

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

[SIGENCEScenarioTool.Datatypes Namespace](#)

DataTypeBase(*T*).ToString Method

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

Namespace: [SIGENCEScenarioTool.Datatypes](#)

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

Syntax

C#

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

Return Value

Type: [String](#)

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

See Also

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

[SIGENCEScenarioTool.Datatypes Namespace](#)

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

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

Operators

	Name	Description
 	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: 15.0.0.0 (15)

Syntax

C#

```
public static implicit operator T (
    DataTypeBase<T> apb
)
```

Parameters

apb

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

The apb.

Return Value

Type: *T*

The result of the conversion.

See Also

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

[SIGENCEScenarioTool.Datatypes Namespace](#)

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

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

Fields

	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: 15.0.0.0 (15)

Syntax

C#

```
protected static readonly CultureInfo CULTUREINFO
```

Field Value

Type: [CultureInfo](#)

See Also

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

[SIGENCEScenarioTool.Datatypes Namespace](#)

UnitPrefix Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Datatypes.UnitPrefix

Namespace: [SIGENCEScenarioTool.Datatypes](#)

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

Syntax

C#

```
public sealed class UnitPrefix
```

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

Constructors

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public UnitPrefix(  
    string strName,  
    string strSymbol,  
    double dFactor  
)
```

Parameters

strName

Type: [System.String](#)

Name of the string.

strSymbol

Type: [System.String](#)

The string symbol.

dFactor

Type: [System.Double](#)

The d factor.

See Also

[UnitPrefix Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

UnitPrefix.UnitPrefix Properties

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

Properties

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

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

Property Value

Type: [Double](#)

The factor.

See Also

[UnitPrefix Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

UnitPrefix.Name Property

Gets or sets the name.

Namespace: [SIGENCEScenarioTool.Datatypes](#)

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

Syntax

C#

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

Property Value

Type: [String](#)

The name.

See Also

[UnitPrefix Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

UnitPrefix.Symbol Property

Gets or sets the symbol.

Namespace: [SIGENCEScenarioTool.Datatypes](#)

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

Syntax

C#

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

Property Value

Type: [String](#)

The symbol.

See Also

[UnitPrefix Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

UnitPrefix.UnitPrefix Methods

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

Methods

	Name	Description
 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: 15.0.0.0 (15)

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: 15.0.0.0 (15)

Syntax

C#

```
public UnitPrefixs()
```

See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

UnitPrefixs.UnitPrefixs Methods

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

Methods

	Name	Description
 	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: 15.0.0.0 (15)

Syntax

C#

```
public static readonly UnitPrefix Atto
```

Field Value

Type: [UnitPrefix](#)

See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

UnitPrefixs.Default Field

The default

Namespace: [SIGENCEScenarioTool.Datatypes](#)

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

Syntax

C#

```
public static readonly UnitPrefix Default
```

Field Value

Type: [UnitPrefix](#)

See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

UnitPrefixs.Exa Field

The exa

Namespace: [SIGENCEScenarioTool.Datatypes](#)

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

Syntax

C#

```
public static readonly UnitPrefix Exa
```

Field Value

Type: [UnitPrefix](#)

See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

UnitPrefixs.Femto Field

The femto

Namespace: [SIGENCEScenarioTool.Datatypes](#)

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

Syntax

C#

```
public static readonly UnitPrefix Femto
```

Field Value

Type: [UnitPrefix](#)

See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

UnitPrefixs.Giga Field

The giga

Namespace: [SIGENCEScenarioTool.Datatypes](#)

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

Syntax

C#

```
public static readonly UnitPrefix Giga
```

Field Value

Type: [UnitPrefix](#)

See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

UnitPrefixs.Kilo Field

The kilo

Namespace: [SIGENCEScenarioTool.Datatypes](#)

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

Syntax

C#

```
public static readonly UnitPrefix Kilo
```

Field Value

Type: [UnitPrefix](#)

See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

UnitPrefixs.Mega Field

The mega

Namespace: [SIGENCEScenarioTool.Datatypes](#)

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

Syntax

C#

```
public static readonly UnitPrefix Mega
```

Field Value

Type: [UnitPrefix](#)

See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

UnitPrefixs.Mikro Field

The mikro

Namespace: [SIGENCEScenarioTool.Datatypes](#)

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

Syntax

C#

```
public static readonly UnitPrefix Mikro
```

Field Value

Type: [UnitPrefix](#)

See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

UnitPrefixs.Milli Field

The milli

Namespace: [SIGENCEScenarioTool.Datatypes](#)

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

Syntax

C#

```
public static readonly UnitPrefix Milli
```

Field Value

Type: [UnitPrefix](#)

See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

UnitPrefixs.Nano Field

The nano

Namespace: [SIGENCEScenarioTool.Datatypes](#)

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

Syntax

C#

```
public static readonly UnitPrefix Nano
```

Field Value

Type: [UnitPrefix](#)

See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

UnitPrefixs.Peta Field

The peta

Namespace: [SIGENCEScenarioTool.Datatypes](#)

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

Syntax

C#

```
public static readonly UnitPrefix Peta
```

Field Value

Type: [UnitPrefix](#)

See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

UnitPrefixs.Piko Field

The piko

Namespace: [SIGENCEScenarioTool.Datatypes](#)

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

Syntax

C#

```
public static readonly UnitPrefix Piko
```

Field Value

Type: [UnitPrefix](#)

See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

UnitPrefixs.Tera Field

The tera

Namespace: [SIGENCEScenarioTool.Datatypes](#)

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

Syntax

C#

```
public static readonly UnitPrefix Tera
```

Field Value

Type: [UnitPrefix](#)

See Also

[UnitPrefixs Class](#)

[SIGENCEScenarioTool.Datatypes Namespace](#)

SIGENCEScenarioTool.Datatypes.Geo Namespace

Classes

	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: 15.0.0.0 (15)

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: 15.0.0.0 (15)

Syntax

C#

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

Parameters

value

Type: [System.Int32](#)

The value.

See Also

[Altitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

Altitude.Altitude Properties

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

Properties

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

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

Return Value

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

true if this instance is valid; otherwise, false.

See Also

[Altitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

Altitude.Altitude Type Conversions

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

Operators

	Name	Description
 	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: 15.0.0.0 (15)

Syntax

C#

```
public static implicit operator Altitude (
    int value
)
```

Parameters

value

Type: [System.Int32](#)

The value.

Return Value

Type: [Altitude](#)

The result of the conversion.

See Also

[Altitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

GeoNode Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Datatypes.Geo.GeoNode

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

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

Syntax

C#

```
public sealed class GeoNode
```

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

Constructors

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public GeoNode()
```

See Also

[GeoNode Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

GeoNode.GeoNode Properties

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

Properties

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

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

Property Value

Type: [Latitude](#)

The latitude.

See Also

[GeoNode Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

GeoNode.Longitude Property

Gets or sets the longitude.

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

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

Syntax

C#

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

Property Value

Type: [Longitude](#)

The longitude.

See Also

[GeoNode Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

GeoNode.Name Property

Gets or sets the name.

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

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

Syntax

C#

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

Property Value

Type: [String](#)

The name.

See Also

[GeoNode Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

GeoNode.NodeId Property

Gets or sets the node identifier.

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

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

Syntax

C#

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

Property Value

Type: [Int64](#)

The node identifier.

See Also

[GeoNode Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

GeoNode.Position Property

Gets the position.

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

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

Syntax

C#

```
public PointLatLng Position { get; }
```

Property Value

Type: [PointLatLng](#)

The position.

See Also

[GeoNode Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

GeoNode.Tag Property

Gets or sets the tag.

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

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

Syntax

C#

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

Property Value

Type: [GeoTag](#)

The tag.

See Also

[GeoNode Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

GeoNode.Value Property

Gets or sets the value.

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

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

Syntax

C#

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

Property Value

Type: [String](#)

The value.

See Also

[GeoNode Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

GeoNode.GeoNode Methods

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

Methods

	Name	Description
 	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: 15.0.0.0 (15)

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.GeoDb.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: 15.0.0.0 (15)

Syntax

C#

```
public static GeoNodeCollection GetCollection(
    string strDatabaseFilename,
    Nullable<GeoTag> geotag = null
)
```

Parameters

strDatabaseFilename

Type: [System.String](#)

The string database filename.

geotag (Optional)

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

The geotag.

Return Value

Type: [GeoNodeCollection](#)

Exceptions

Exception	Condition
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: 15.0.0.0 (15)

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: 15.0.0.0 (15)

Syntax

C#

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

Parameters

value

Type: [System.Double](#)

The value.

See Also

[Latitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

Latitude.Latitude Properties

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

Properties

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

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

Return Value

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

true if this instance is valid; otherwise, false.

See Also

[Latitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

Latitude.ToString Method

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

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

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

Syntax

C#

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

Return Value

Type: [String](#)

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

See Also

[Latitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

Latitude.Latitude Type Conversions

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

Operators

	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: 15.0.0.0 (15)

Syntax

C#

```
public static implicit operator Latitude (
    double value
)
```

Parameters

value

Type: [System.Double](#)

The value.

Return Value

Type: [Latitude](#)

The result of the conversion.

See Also

[Latitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

Longitude Class

Inheritance Hierarchy

[System.Object](#)

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

SIGENCEScenarioTool.Datatypes.Geo.Longitude

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

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

Syntax

C#

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

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

Constructors

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

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

Parameters

value

Type: [System.Double](#)

The value.

See Also

[Longitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

Longitude.Longitude Properties

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

Properties

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

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

Return Value

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

true if this instance is valid; otherwise, false.

See Also

[Longitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

Longitude.ToString Method

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

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

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

Syntax

C#

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

Return Value

Type: [String](#)

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

See Also

[Longitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

Longitude.Longitude Type Conversions

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

Operators

	Name	Description
 	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: 15.0.0.0 (15)

Syntax

C#

```
public static implicit operator Longitude (
    double value
)
```

Parameters

value

Type: [System.Double](#)

The value.

Return Value

Type: [Longitude](#)

The result of the conversion.

See Also

[Longitude Class](#)

[SIGENCEScenarioTool.Datatypes.Geo Namespace](#)

SIGENCEScenarioTool.Datatypes.Observable Namespace

Classes

	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: 15.0.0.0 (15)

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: 15.0.0.0 (15)

Syntax

C#

```
public ObservableStringCollection()
```

See Also

[ObservableStringCollection Class](#)

[SIGENCEScenarioTool.Datatypes.Observable Namespace](#)

ObservableStringCollection.ObservableStringCollection Properties

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

Properties

	Name	Description
	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: 15.0.0.0 (15)

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: 15.0.0.0 (15)

Syntax

C#

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

Parameters

value

Type: [System.Double](#)

The value.

See Also

[Bandwidth Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

Bandwidth.Bandwidth Properties

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

Properties

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

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

Return Value

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

true if this instance is valid; otherwise, false.

See Also

[Bandwidth Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

Bandwidth.ToString Method

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

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

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

Syntax

C#

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

Return Value

Type: [String](#)

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

See Also

[Bandwidth Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

Bandwidth.Bandwidth Type Conversions

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

Operators

	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: 15.0.0.0 (15)

Syntax

C#

```
public static implicit operator Bandwidth (
    double value
)
```

Parameters

value

Type: [System.Double](#)

The value.

Return Value

Type: [Bandwidth](#)

The result of the conversion.

See Also

[Bandwidth Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

Frequency Class

Inheritance Hierarchy

[System.Object](#)

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

SIGENCEScenarioTool.Datatypes.Physically.Frequency

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

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

Syntax

C#

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

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

Constructors

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

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

Parameters

value

Type: [System.Double](#)

The value.

See Also

[Frequency Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

Frequency.Frequency Properties

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

Properties

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

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

Return Value

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

true if this instance is valid; otherwise, false.

See Also

[Frequency Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

Frequency.ToString Method

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

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

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

Syntax

C#

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

Return Value

Type: [String](#)

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

See Also

[Frequency Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

Frequency.Frequency Type Conversions

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

Operators

	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: 15.0.0.0 (15)

Syntax

C#

```
public static implicit operator Frequency (
    double value
)
```

Parameters

value

Type: [System.Double](#)

The value.

Return Value

Type: [Frequency](#)

The result of the conversion.

See Also

[Frequency Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

Gain Class

Inheritance Hierarchy

[System.Object](#)

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

SIGENCEScenarioTool.Datatypes.Physically.Gain

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

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

Syntax

C#

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

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

Constructors

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

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

Parameters

value

Type: [System.Double](#)

The value.

See Also

[Gain Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

Gain.Gain Properties

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

Properties

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

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

Return Value

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

true if this instance is valid; otherwise, false.

See Also

[Gain Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

Gain.ToString Method

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

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

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

Syntax

C#

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

Return Value

Type: [String](#)

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

See Also

[Gain Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

Gain.Gain Type Conversions

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

Operators

	Name	Description
 	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: 15.0.0.0 (15)

Syntax

C#

```
public static implicit operator Gain (
    double value
)
```

Parameters

value

Type: [System.Double](#)

The value.

Return Value

Type: [Gain](#)

The result of the conversion.

See Also

[Gain Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

SignalToNoiseRatio Class

Inheritance Hierarchy

[System.Object](#)

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

SIGENCEScenarioTool.Datatypes.Physically.SignalToNoiseRatio

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

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

Syntax

C#

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

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

Constructors

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

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

Parameters

value

Type: [System.Double](#)

The value.

See Also

[SignalToNoiseRatio Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

SignalToNoiseRatio.SignalToNoiseRatio Properties

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

Properties

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

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

Return Value

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

true if this instance is valid; otherwise, false.

See Also

[SignalToNoiseRatio Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

SignalToNoiseRatio.ToString Method

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

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

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

Syntax

C#

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

Return Value

Type: [String](#)

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

See Also

[SignalToNoiseRatio Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

SignalToNoiseRatio.SignalToNoiseRatio Type Conversions

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

Operators

	Name	Description
 	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: 15.0.0.0 (15)

Syntax

C#

```
public static implicit operator SignalToNoiseRatio (
    double value
)
```

Parameters

value

Type: [System.Double](#)

The value.

Return Value

Type: [SignalToNoiseRatio](#)

The result of the conversion.

See Also

[SignalToNoiseRatio Class](#)

[SIGENCEScenarioTool.Datatypes.Physically Namespace](#)

SIGENCEScenarioTool.Datatypes.Standard Namespace

Classes

	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: 15.0.0.0 (15)

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: 15.0.0.0 (15)

Syntax

C#

```
public IntegerList()
```

See Also

[IntegerList Class](#)

[IntegerList Overload](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

IntegerList Constructor (IEnumerable<Int32>)

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

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

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

Syntax

C#

```
public IntegerList(  
    IEnumerable<int> collection  
)
```

Parameters

collection

Type: [System.Collections.Generic.IEnumerable<Int32>](#)

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

See Also

[IntegerList Class](#)

[IntegerList Overload](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

IntegerList Constructor (Int32)

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

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

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

Syntax

C#

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

Parameters

iSize

Type: [System.Int32](#)

Size of the i.

See Also

[IntegerList Class](#)

[IntegerList Overload](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

IntegerList.IntegerList Properties

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

Properties

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public static IntegerList operator *(
    IntegerList ilSource,
    int iMultiplier
)
```

Parameters

ilSource

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

The il source.

iMultiplier

Type: [System.Int32](#)

The i multiplier.

Return Value

Type: [IntegerList](#)

The result of the operator.

See Also

[IntegerList Class](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

StringList Class

Inheritance Hierarchy

[System.Object](#)

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

SIGENCEScenarioTool.Datatypes.Standard.StringList

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

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

Syntax

C#

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

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

Constructors

	Name	Description
≡	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: 15.0.0.0 (15)

Syntax

C#

```
public StringList()
```

See Also

[StringList Class](#)

[StringList Overload](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

StringList Constructor (IEnumerable(String))

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

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

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

Syntax

C#

```
public StringList(  
    IEnumerable<string> collection  
)
```

Parameters

collection

Type: [System.Collections.Generic.IEnumerable\(String\)](#)

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

See Also

[StringList Class](#)

[StringList Overload](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

StringList Constructor (Int32)

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

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

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

Syntax

C#

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

Parameters

iSize

Type: [System.Int32](#)

Size of the i.

See Also

[StringList Class](#)

[StringList Overload](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

StringList Constructor (String[])

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

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

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

Syntax

C#

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

Parameters

strArray

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

The string array.

See Also

[StringList Class](#)

[StringList Overload](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

StringList.StringList Properties

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

Properties

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public static implicit operator string[] (
    StringList sl
)
```

Parameters

sl

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

The sl.

Return Value

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

The result of the conversion.

See Also

[StringList Class](#)

[SIGENCEScenarioTool.Datatypes.Standard Namespace](#)

SIGENCEScenarioTool.Extensions Namespace

Classes

Class	Description
 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: 15.0.0.0 (15)

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: 15.0.0.0 (15)

Syntax

C#

```
public static Color WithAlpha(  
    this Color color,  
    byte bAlpha  
)
```

Parameters

color

Type: [System.Windows.Media.Color](#)

bAlpha

Type: [System.Byte](#)

Return Value

Type: [Color](#)

Usage Note

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

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

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

See Also

[ColorExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

DateTimeExtension Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.DateTimeExtension

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static class DateTimeExtension
```

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

Methods

	Name	Description
 	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: 15.0.0.0 (15)

Syntax

C#

```
public static int DaysInMonth(  
    this DateTime dt  
)
```

Parameters

dt

Type: [System.DateTime](#)

The dt.

Return Value

Type: [Int32](#)

Usage Note

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

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

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

See Also

[DateTimeExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

DateTimeExtension.Fmt_DD_MM_YYYY Method

dd.MM.yyyy

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static string Fmt_DD_MM_YYYY(  
    this DateTime dt  
)
```

Parameters

dt

Type: [System.DateTime](#)

The dt.

Return Value

Type: [String](#)

Usage Note

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

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

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

See Also

[DateTimeExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

DateTimeExtension.Fmt_DD_MM_YYYY_HH_MM Method

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static string Fmt_DD_MM_YYYY_HH_MM(
    this DateTime dt
)
```

Parameters

dt

Type: [System.DateTime](#)

Return Value

Type: [String](#)

Usage Note

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

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

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

See Also

[DateTimeExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

DateTimeExtension.Fmt_DD_MM_YYYY_HH_MM_SS Method

dd.MM.yyyy, HH:mm:ss

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static string Fmt_DD_MM_YYYY_HH_MM_SS (
    this DateTime dt
)
```

Parameters

dt

Type: [System.DateTime](#)

The dt.

Return Value

Type: [String](#)

Usage Note

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

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

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

See Also

[DateTimeExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

DateTimeExtension.Fmt_HH_MM_SS Method

HH:mm:ss

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static string Fmt_HH_MM_SS (
    this DateTime dt
)
```

Parameters

dt

Type: [System.DateTime](#)

Return Value

Type: [String](#)

Usage Note

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

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

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

See Also

[DateTimeExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

DateTimeExtension.Fmt_YYYYMMDD Method

yyyyMMdd

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static string Fmt_YYYYMMDD (
    this DateTime dt
)
```

Parameters

dt

Type: [System.DateTime](#)

The *dt*.

Return Value

Type: [String](#)

Usage Note

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

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

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

See Also

[DateTimeExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

DateTimeExtension.Fmt_YYYYMMDD_HHMMSS Method

yyyyMMdd_HHmmss

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static string Fmt_YYYYMMDD_HHMMSS (
    this DateTime dt
)
```

Parameters

dt

Type: [System.DateTime](#)

The *dt*.

Return Value

Type: [String](#)

Usage Note

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

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

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

See Also

[DateTimeExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

DateTimeExtension.Fmt_YYYYMMDD_HHMMSSFFF Method

yyyyMMdd_HHmmssfff

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static string Fmt_YYYYMMDD_HHMMSSFFF(
    this DateTime dt
)
```

Parameters

dt

Type: [System.DateTime](#)

Return Value

Type: [String](#)

Usage Note

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

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

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

See Also

[DateTimeExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

DateTimeExtension.Fmt_YYYYMMDDHHMMSS Method

yyyyMMddHHmmss

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static string Fmt_YYYYMMDDHHMMSS (
    this DateTime dt
)
```

Parameters

dt

Type: [System.DateTime](#)

The dt.

Return Value

Type: [String](#)

Usage Note

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

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

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

See Also

[DateTimeExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

DbCommandExtension Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.DbCommandExtension

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static class DbCommandExtension
```

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

Methods

	Name	Description
 	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
 	ResetParameters	Set alle Parameters to NULL.
 	SetNullableParamter(DbCommand, Int32, Object)	Sets the nullable paramter.
 	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: 15.0.0.0 (15)

Syntax

C#

```
public static void ResetParameters(  
    this DbCommand dbCommand  
)
```

Parameters

dbCommand

Type: [System.Data.Common.DbCommand](#)

The database command.

Usage Note

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

See Also

[DbCommandExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

DbCommandExtension.SetNullableParamter Method

Overload List

	Name	Description
 S	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: 15.0.0.0 (15)

Syntax

C#

```
public static void SetNullableParamter(
    this DbCommand dbCommand,
    int iParameterIndex,
    Object o
)
```

Parameters

dbCommand

Type: [System.Data.Common.DbCommand](#)

The database command.

iParameterIndex

Type: [System.Int32](#)

Index of the i parameter.

o

Type: [System.Object](#)

The o.

Usage Note

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

See Also

[DbCommandExtension Class](#)

[SetNullableParamter Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

DbCommandExtension.SetNullableParamter Method (DbCommand, String, Object)

Adds the nullable paramter.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static void SetNullableParamter(
    this DbCommand dbCommand,
    string strParameterName,
    Object o
)
```

Parameters

dbCommand

Type: [System.Data.Common.DbCommand](#)

The database command.

strParameterName

Type: [System.String](#)

Name of the string parameter.

o

Type: [System.Object](#)

The o.

Usage Note

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

See Also

[DbCommandExtension Class](#)

[SetNullableParamter Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

DictionaryExtension Class

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

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.DictionaryExtension

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static class DictionaryExtension
```

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

Methods

	Name	Description
 	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: 15.0.0.0 (15)

Syntax

C#

```
public static void ForEach<TKey, TValue>(
    this Dictionary<TKey, TValue> dict,
    Action<TKey, TValue> action
)
```

Parameters

dict

Type: [System.Collections.Generic.Dictionary\(*TKey*, *TValue*\)](#)

The dict.

action

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

The action.

Type Parameters

TKey

The type of the key.

TValue

The type of the value.

Usage Note

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

See Also

[DictionaryExtension Class](#)

[ForEach Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

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

Fors the each.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static void ForEach<TKey, TValue>(
    this SortedDictionary<TKey, TValue> dict,
    Action<TKey, TValue> action
)
```

Parameters

dict

Type: [System.Collections.Generic.SortedDictionary](#)(*TKey*, *TValue*)

The dict.

action

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

The action.

Type Parameters

TKey

The type of the key.

TValue

The type of the value.

Usage Note

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

See Also

[DictionaryExtension Class](#)

[ForEach Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

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

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

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static string ToString<TKey, TValue>(
    this SortedDictionary<TKey, TValue> dict,
    char cDivider
)
```

Parameters

dict

Type: [System.Collections.Generic.SortedDictionary](#)(*TKey*, *TValue*)

The dictionary.

cDivider

Type: [System.Char](#)

The c divider.

Type Parameters

TKey

The type of the key.

TValue

The type of the value.

Return Value

Type: [String](#)

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

Usage Note

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

See Also

[DictionaryExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

FileInfoExtension Class

Eine Erweiterungsklasse für System.IO.FileInfo .

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.FileInfoExtension

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static class FileInfoExtension
```

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

Methods

	Name	Description
 	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: 15.0.0.0 (15)

Syntax

C#

```
public static FileInfo CopyTo(  
    this FileInfo fi,  
    DirectoryInfo di  
)
```

Parameters

fi

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

The fi.

di

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

The di.

Return Value

Type: [FileInfo](#)

Usage Note

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

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

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

See Also

[FileInfoExtension Class](#)

[CopyTo Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

FileInfoExtension.CopyTo Method (FileInfo, DirectoryInfo, Boolean)

Copies to.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static FileInfo CopyTo(  
    this FileInfo fi,  
    DirectoryInfo di,  
    bool bOverwrite  
)
```

Parameters

fi

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

The fi.

di

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

The di.

bOverwrite

Type: [System.Boolean](#)

if set to `true` [b overwrite].

Return Value

Type: [FileInfo](#)

Usage Note

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

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

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

See Also

[FileInfoExtension Class](#)

[CopyTo Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

FileInfoExtension.GetFilenameWithoutExtension Method

Gets the filename without extension.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static string GetFilenameWithoutExtension(
    this FileInfo fi
)
```

Parameters

fi

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

The *fi*.

Return Value

Type: [String](#)

Usage Note

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

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

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

See Also

[FileInfoExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

FileInfoExtension.GetFileSize Method

Gets the size of the file.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static string GetFileSize(  
    this FileInfo fi  
)
```

Parameters

fi

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

The *fi*.

Return Value

Type: [String](#)

Usage Note

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

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

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

See Also

[FileInfoExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

FileInfoExtension.MoveTo Method

Moves to file to a other directory.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static void MoveTo(
    this FileInfo fi,
    DirectoryInfo diDirectory
)
```

Parameters

fi

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

The fi.

diDirectory

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

The di directory.

Usage Note

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

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

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

See Also

[FileInfoExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

IDataReaderExtension Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.IDataReaderExtension

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static class IDataReaderExtension
```

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

Methods

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public static Nullable<DateTime> GetDateTimeOrNull(
    this IDataReader dbResult,
    int iColumnIndex
)
```

Parameters

dbResult

Type: [System.Data.IDataReader](#)

The database result.

iColumnIndex

Type: [System.Int32](#)

Index of the i column.

Return Value

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

Usage Note

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

See Also

[IDataReaderExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

IDataReaderExtension.GetGeometryFromWKB Method

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static IGeometry GetGeometryFromWKB (
    this IDataReader dbResult,
    int iColumnIndex
)
```

Parameters

dbResult

Type: [System.Data.IDataReader](#)

iColumnIndex

Type: [System.Int32](#)

Return Value

Type: **IGeometry**

Usage Note

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

See Also

[IDataReaderExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

IDataReaderExtension.GetInt32OrNull Method

Gets the int32 or null.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Nullable<int> GetInt32OrNull(
    this IDataReader dbResult,
    int iColumnIndex
)
```

Parameters

dbResult

Type: [System.Data.IDataReader](#)

The database result.

iColumnIndex

Type: [System.Int32](#)

Index of the i column.

Return Value

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

Usage Note

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

See Also

[IDataReaderExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

IDataReaderExtension.GetInt64OrNull Method

Gets the int64 or null.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Nullable<long> GetInt64OrNull(
    this IDataReader dbResult,
    int iColumnIndex
)
```

Parameters

dbResult

Type: [System.Data.IDataReader](#)

The database result.

iColumnIndex

Type: [System.Int32](#)

Index of the i column.

Return Value

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

Usage Note

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

See Also

[IDataReaderExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

IDataReaderExtension.GetLineStringFromWKB Method

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static LineString GetLineStringFromWKB (
    this IDataReader dbResult,
    int iColumnIndex
)
```

Parameters

dbResult

Type: [System.Data.IDataReader](#)

iColumnIndex

Type: [System.Int32](#)

Return Value

Type: [LineString](#)

Usage Note

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

See Also

[IDataReaderExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

IDataReaderExtension.GetMultiPolygonFromWKB Method

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static MultiPolygon GetMultiPolygonFromWKB (
    this IDataReader dbResult,
    int iColumnIndex
)
```

Parameters

dbResult

Type: [System.Data.IDataReader](#)

iColumnIndex

Type: [System.Int32](#)

Return Value

Type: **MultiPolygon**

Usage Note

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

See Also

[IDataReaderExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

IDataReaderExtension.GetPointFromWKB Method

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Point GetPointFromWKB(
    this IDataReader dbResult,
    int iColumnIndex
)
```

Parameters

dbResult

Type: [System.Data.IDataReader](#)

iColumnIndex

Type: [System.Int32](#)

Return Value

Type: **Point**

Usage Note

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

See Also

[IDataReaderExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

IDataReaderExtension.GetPolygonFromWKB Method

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Polygon GetPolygonFromWKB (
    this IDataReader dbResult,
    int iColumnIndex
)
```

Parameters

dbResult

Type: [System.Data.IDataReader](#)

iColumnIndex

Type: [System.Int32](#)

Return Value

Type: **Polygon**

Usage Note

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

See Also

[IDataReaderExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

IDataReaderExtension.GetStringOrNull Method

Gets the string or null.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static string GetStringOrNull(  
    this IDataReader dbResult,  
    int iColumnIndex  
)
```

Parameters

dbResult

Type: [System.Data.IDataReader](#)

The database result.

iColumnIndex

Type: [System.Int32](#)

Index of the i column.

Return Value

Type: [String](#)

Usage Note

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

See Also

[IDataReaderExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

IDbConnectionExtension Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.IDbConnectionExtension

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static class IDbConnectionExtension
```

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

Methods

	Name	Description
 	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: 15.0.0.0 (15)

Syntax

C#

```
public static bool CloseIfOpen(
    this IDbConnection dbConnection,
    bool bIgnoreCloseException = true
)
```

Parameters

dbConnection

Type: [System.Data.IDbConnection](#)

The db connection.

bIgnoreCloseException (Optional)

Type: [System.Boolean](#)

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

Return Value

Type: [Boolean](#)

Usage Note

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

See Also

[IDbConnectionExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

IDbConnectionExtension.ExecuteNonQuery Method

Overload List

	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: 15.0.0.0 (15)

Syntax

C#

```
public static int ExecuteNonQuery(  
    this IDbConnection dbConnection,  
    string strFormat,  
    params Object[] args  
)
```

Parameters

dbConnection

Type: [System.Data.IDbConnection](#)

The db connection.

strFormat

Type: [System.String](#)

The STR format.

args

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

The args.

Return Value

Type: [Int32](#)

Usage Note

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

See Also

[IDbConnectionExtension Class](#)

[ExecuteNonQuery Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

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

Executes the non query.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static int ExecuteNonQuery(  
    this IDbConnection dbConnection,  
    int iTimeout,  
    bool bTransaction,  
    string strFormat,  
    params Object[] args  
)
```

Parameters

dbConnection

Type: [System.Data.IDbConnection](#)

The database connection.

iTimeout

Type: [System.Int32](#)

The i timeout.

bTransaction

Type: [System.Boolean](#)

if set to `true` [b transaction].

strFormat

Type: [System.String](#)

The string format.

args

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

The arguments.

Return Value

Type: [Int32](#)

Usage Note

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

See Also

[IDbConnectionExtension Class](#)

[ExecuteNonQuery Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

IDbConnectionExtension.ExecuteScalar Method

Overload List

	Name	Description
 S	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: 15.0.0.0 (15)

Syntax

C#

```
public static Object ExecuteScalar(
    this IDbConnection dbConnection,
    string strFormat,
    params Object[] args
)
```

Parameters

dbConnection

Type: [System.Data.IDbConnection](#)

The database connection.

strFormat

Type: [System.String](#)

The string format.

args

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

The arguments.

Return Value

Type: [Object](#)

Usage Note

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

See Also

[IDbConnectionExtension Class](#)

[ExecuteScalar Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

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

Executes the scalar.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Object ExecuteScalar(
    this IDbConnection dbConnection,
    int iTimeOut,
    string strFormat,
    params Object[] args
)
```

Parameters

dbConnection

Type: [System.Data.IDbConnection](#)

The db connection.

iTimeOut

Type: [System.Int32](#)

The i time out.

strFormat

Type: [System.String](#)

The STR format.

args

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

The args.

Return Value

Type: [Object](#)

Usage Note

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

See Also

[IDbConnectionExtension Class](#)

[ExecuteScalar Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

IDbConnectionExtension.GetDictionary(*T1, T2*) Method

Gets the dictionary.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Dictionary<T1, T2> GetDictionary<T1, T2>(
    this IDbConnection dbConnection,
    string strSelectStatement
)
```

Parameters

dbConnection

Type: [System.Data.IDbConnection](#)

The database connection.

strSelectStatement

Type: [System.String](#)

The string select statement.

Type Parameters

T1

The type of the 1.

T2

The type of the 2.

Return Value

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

Usage Note

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

See Also

[IDbConnectionExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

IDbConnectionExtension.GetSortedDictionary(*T1, T2*) Method

Liefert das Ergebnis eines Statements als SortedDictionary zurück.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static SortedDictionary<T1, T2> GetSortedDictionary<T1, T2>(
    this IDbConnection dbConnection,
    string strSelectStatement
)
```

Parameters

dbConnection

Type: [System.Data.IDbConnection](#)

The database connection.

strSelectStatement

Type: [System.String](#)

The string select statement.

Type Parameters

T1

The type of the 1.

T2

The type of the 2.

Return Value

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

Usage Note

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

See Also

[IDbConnectionExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

IDbConnectionExtension.SaveAsCSV Method

Exports the CSV.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static void SaveAsCSV(
    this IDbConnection dbConnection,
    string strSelectStatement,
    FileInfo fiExportFile,
    char cDivider
)
```

Parameters

dbConnection

Type: [System.Data.IDbConnection](#)

The db connection.

strSelectStatement

Type: [System.String](#)

The STR select statement.

fiExportFile

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

The fi export file.

cDivider

Type: [System.Char](#)

The c divider.

Usage Note

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

See Also

[IDbConnectionExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

IDbConnectionExtension.Select Method

Overload List

	Name	Description
 S	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: 15.0.0.0 (15)

Syntax

C#

```
public static IEnumerable<IDataReader> Select(
    this IDbConnection dbConnection,
    string strSelectStatement
)
```

Parameters

dbConnection

Type: [System.Data.IDbConnection](#)

Die aktuelle Datenbankverbindung.

strSelectStatement

Type: [System.String](#)

The STR select statement.

Return Value

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

Usage Note

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

See Also

[IDbConnectionExtension Class](#)

[Select Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

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

Selects the specified db connection.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static IEnumerable<IDataReader> Select(
    this IDbConnection dbConnection,
    string strFormat,
    params Object[] args
)
```

Parameters

dbConnection

Type: [System.Data.IDbConnection](#)

The db connection.

strFormat

Type: [System.String](#)

The STR format.

args

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

The args.

Return Value

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

Usage Note

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

See Also

[IDbConnectionExtension Class](#)

[Select Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

IDbConnectionExtension.SelectAsDataTable Method

Selects as data table.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static DataTable SelectAsDataTable(
    this IDbConnection dbConnection,
    string strResultTableName,
    string strFormat,
    params Object[] args
)
```

Parameters

dbConnection

Type: [System.Data.IDbConnection](#)

The database connection.

strResultTableName

Type: [System.String](#)

Name of the string result table.

strFormat

Type: [System.String](#)

The string format.

args

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

The arguments.

Return Value

Type: [DataTable](#)

Usage Note

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

See Also

[IDbConnectionExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

ListExtension Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.ListExtension

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static class ListExtension
```

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

Methods

	Name	Description
 	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: 15.0.0.0 (15)

Syntax

C#

```
public static void SaveAsCsv<T>(
    this List<T> lValues,
    string strOutputFilename,
    bool bUseQuotationMark = false
)
```

Parameters

lValues

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

The *l* values.

strOutputFilename

Type: [System.String](#)

The string output filename.

bUseQuotationMark (Optional)

Type: [System.Boolean](#)

if set to `true` [b use quotation mark].

Type Parameters

T

Usage Note

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

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

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

Exceptions

Exception	Condition
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: 15.0.0.0 (15)

Syntax

C#

```
public static void SaveAsXml<T>(
    this List<T> lValues,
    string strOutputFilename
)
where T : IXmlExport
```

Parameters

lValues

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

The *l* values.

strOutputFilename

Type: [System.String](#)

The string output filename.

Type Parameters

T

Usage Note

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

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

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

See Also

[ListExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

RandomExtension Class

Eine Erweiterungsklasse für System.Random .

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.RandomExtension

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static class RandomExtension
```

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

Methods

	Name	Description
 	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.

 	<u>NextSalt</u>	Nexts the salt.
 	<u>NextString</u>	Nexts the string.
 	<u>NextUInt</u>	Der Vollständigkeit wegen.
 	<u>NextULong</u>	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: 15.0.0.0 (15)

Syntax

C#

```
public static string NextAutoKennzeichen(
    this Random r
)
```

Parameters

r

Type: [System.Random](#)

The *r*.

Return Value

Type: [String](#)

Usage Note

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

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

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

See Also

[RandomExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

RandomExtension.NextBool Method

Liefert einen Zufalls Boolschen Wert zurück.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static bool NextBool(  
    this Random r  
)
```

Parameters

r

Type: [System.Random](#)

The current random object

Return Value

Type: [Boolean](#)

Usage Note

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

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

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

See Also

[RandomExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

RandomExtension.NextColor Method

Returns the next Color.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Color NextColor(  
    this Random r  
)
```

Parameters

r

Type: [System.Random](#)

The *r*.

Return Value

Type: [Color](#)

Usage Note

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

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

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

See Also

[RandomExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

RandomExtension.NextDateTime Method

Overload List

	Name	Description
 S	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: 15.0.0.0 (15)

Syntax

C#

```
public static DateTime NextDateTime(  
    this Random r,  
    DateTimeKind dtk = DateTimeKind.Local  
)
```

Parameters

r

Type: [System.Random](#)

The r.

dtk (Optional)

Type: [System.DateTimeKind](#)

The DTK.

Return Value

Type: [DateTime](#)

Usage Note

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

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

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

See Also

[RandomExtension Class](#)

[NextDateTime Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

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

Nexts the date time.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static DateTime NextDateTime(  
    this Random r,  
    DateTime dtMin,  
    DateTime dtMax,  
    DateTimeKind dtk = DateTimeKind.Local  
)
```

Parameters

r

Type: [System.Random](#)

The r.

dtMin

Type: [System.DateTime](#)

The dt minimum.

dtMax

Type: [System.DateTime](#)

The dt maximum.

dtk (Optional)

Type: [System.DateTimeKind](#)

The DTK.

Return Value

Type: [DateTime](#)

Usage Note

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

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

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

See Also

[RandomExtension Class](#)

[NextDateTime Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

RandomExtension.NextEnum Method

Overload List

	Name	Description
 	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: 15.0.0.0 (15)

Syntax

C#

```
public static T NextEnum<T>(
    this Random r
)
```

Parameters

r

Type: [System.Random](#)

The current random object

Type Parameters

T

Return Value

Type: ***T***

Usage Note

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

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

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

See Also

[RandomExtension Class](#)

[NextEnum Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

RandomExtension.NextEnum Method (Random, Type)

Nexts the enum.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static int NextEnum(  
    this Random r,  
    Type tEnum  
)
```

Parameters

r

Type: [System.Random](#)

The *r*.

tEnum

Type: [System.Type](#)

The *t* enum.

Return Value

Type: [Int32](#)

Usage Note

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

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

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

See Also

[RandomExtension Class](#)

[NextEnum Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

RandomExtension.NextInt Method

Der Vollständigkeit wegen.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static int NextInt(  
    this Random r  
)
```

Parameters

r

Type: [System.Random](#)

The *r*.

Return Value

Type: [Int32](#)

Usage Note

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

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

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

See Also

[RandomExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

RandomExtension.NextLong Method

Nexts the long.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static long NextLong(  
    this Random r  
)
```

Parameters

r

Type: [System.Random](#)

The *r*.

Return Value

Type: [Int64](#)

Usage Note

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

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

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

See Also

[RandomExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

RandomExtension.NextObject Method

Overload List

	Name	Description
 S	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: 15.0.0.0 (15)

Syntax

C#

```
public static T NextObject<T>(
    this Random r,
    ICollection<T> cValues
)
```

Parameters

r

Type: [System.Random](#)

The *r*.

cValues

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

The *c* values.

Type Parameters

T

Return Value

Type: *T*

Usage Note

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

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

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

See Also

[RandomExtension Class](#)

[NextObject Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

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

Nexts the object.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static T NextObject<T>(
    this Random r,
    IList<T> lValues
)
```

Parameters

r

Type: [System.Random](#)

The *r*.

lValues

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

The *l* values.

Type Parameters

T

Return Value

Type: ***T***

Usage Note

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

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

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

See Also

[RandomExtension Class](#)

[NextObject Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

RandomExtension.NextSalt Method

Nexts the salt.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static string NextSalt(  
    this Random r,  
    int iSaltLength = 5  
)
```

Parameters

r

Type: [System.Random](#)

The *r*.

iSaltLength (Optional)

Type: [System.Int32](#)

Length of the *i* salt.

Return Value

Type: [String](#)

Usage Note

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

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

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

See Also

[RandomExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

RandomExtension.NextString Method

Nexsts the string.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static string NextString(  
    this Random r,  
    int iMinLength,  
    int iMaxLength  
)
```

Parameters

r

Type: [System.Random](#)

The r.

iMinLength

Type: [System.Int32](#)

Length of the i min.

iMaxLength

Type: [System.Int32](#)

Length of the i max.

Return Value

Type: [String](#)

Usage Note

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

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

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

See Also

[RandomExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

RandomExtension.NextUInt Method

Der Vollständigkeit wegen.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static uint NextUInt(  
    this Random r  
)
```

Parameters

r

Type: [System.Random](#)

The *r*.

Return Value

Type: [UInt32](#)

Usage Note

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

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

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

See Also

[RandomExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

RandomExtension.NextULong Method

Nexts the u long.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static ulong NextULong(  
    this Random r  
)
```

Parameters

r

Type: [System.Random](#)

The *r*.

Return Value

Type: [UInt64](#)

Usage Note

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

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

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

See Also

[RandomExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

SQLiteExtension Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.SQLiteExtension

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static class SQLiteExtension
```

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

Methods

	Name	Description
	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	GetTableNameNames	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: 15.0.0.0 (15)

Syntax

C#

```
public static void Analyze(  
    this SQLiteConnection dbConnection  
)
```

Parameters

dbConnection

Type: **SQLiteConnection**

The database connection.

Usage Note

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

See Also

[SQLiteExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

SQLiteExtension.DropTable Method

Drops the table.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static void DropTable(  
    this SQLiteConnection dbConnection,  
    string strtablename  
)
```

Parameters

dbConnection

Type: **SQLiteConnection**

The database connection.

strtablename

Type: [System.String](#)

The string tablename.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type

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

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

See Also

[SQLiteExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

SQLiteExtension.GetLastPrimarykey Method

Gets the last primarykey.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static long GetLastPrimarykey(  
    this SQLiteConnection dbConnection  
)
```

Parameters

dbConnection

Type: **SQLiteConnection**

The database connection.

Return Value

Type: [Int64](#)

Usage Note

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

See Also

[SQLiteExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

SQLiteExtension.GetTableNames Method

Gets the table names.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static List<string> GetTableNames (
    this SQLiteConnection dbConnection
)
```

Parameters

dbConnection

Type: **SQLiteConnection**

The database connection.

Return Value

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

Usage Note

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

See Also

[SQLiteExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

SQLiteExtension.GetViewNames Method

Gets the view names.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static List<string> GetViewNames(
    this SQLiteConnection dbConnection
)
```

Parameters

dbConnection

Type: **SQLiteConnection**

The database connection.

Return Value

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

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type

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

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

See Also

[SQLiteExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

SQLiteExtension.PrepareInsertStatement Method

Prepares the insert statement.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static SQLiteCommand PrepareInsertStatement(
    this SQLiteConnection dbConnection,
    string strtablename,
    bool bIgnorePrimaryKey = true
)
```

Parameters

dbConnection

Type: **SQLiteConnection**

The database connection.

strtablename

Type: [System.String](#)

The string tablename.

bIgnorePrimaryKey (Optional)

Type: [System.Boolean](#)

if set to `true` [b ignore primary key].

Return Value

Type: **SQLiteCommand**

Usage Note

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

See Also

[SQLiteExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

SQLiteExtension.Reindex Method

Reindexes the specified database connection.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static void Reindex(
    this SQLiteConnection dbConnection
)
```

Parameters

dbConnection

Type: **SQLiteConnection**

The database connection.

Usage Note

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

See Also

[SQLiteExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

SQLiteExtension.TableExists Method

Tables the exists.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static bool TableExists(  
    this SQLiteConnection dbConnection,  
    string strtablename  
)
```

Parameters

dbConnection

Type: **SQLiteConnection**

The db connection.

strtablename

Type: [System.String](#)

The STR tablename.

Return Value

Type: [Boolean](#)

Usage Note

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

See Also

[SQLiteExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

SQLiteExtension.Truncate Method

Truncates the specified string tablename.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static void Truncate(
    this SQLiteConnection dbConnection,
    string strtablename
)
```

Parameters

dbConnection

Type: **SQLiteConnection**

The database connection.

strtablename

Type: [System.String](#)

The string tablename.

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type

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

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

See Also

[SQLiteExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

SQLiteExtension.Vacuum Method

Vacuums the specified database connection.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static void Vacuum(
    this SQLiteConnection dbConnection
)
```

Parameters

dbConnection

Type: **SQLiteConnection**

The database connection.

Usage Note

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

See Also

[SQLiteExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

StringBuilderExtension Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.StringBuilderExtension

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static class StringBuilderExtension
```

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

Methods

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public static void AppendLine(  
    this StringBuilder sb,  
    string strFormat,  
    params Object[] param  
)
```

Parameters

sb

Type: [System.Text.StringBuilder](#)

The sb.

strFormat

Type: [System.String](#)

The string format.

param

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

The parameter.

Usage Note

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

See Also

[StringBuilderExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

StringExtension Class

Eine Erweiterungsklasse für unseren lieblichen String.

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.StringExtension

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static class StringExtension
```

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

Methods

	Name	Description
 	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: 15.0.0.0 (15)

Syntax

C#

```
public static string Capitalize(  
    this string strContent  
)
```

Parameters

strContent

Type: [System.String](#)

Content of the string.

Return Value

Type: [String](#)

Usage Note

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

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

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

See Also

[StringExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

StringExtension.CapitalizeOnlyFirstLetter Method

Capitalizes the only first letter.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static string CapitalizeOnlyFirstLetter(
    this string strContent
)
```

Parameters

strContent

Type: [System.String](#)

Content of the string.

Return Value

Type: [String](#)

Usage Note

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

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

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

See Also

[StringExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

StringExtension.EqualsIgnoreCase Method

Vergleicht zwei String wobei nicht zwischen Groß- und Kleinschreibung unterschieden wird.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static bool EqualsIgnoreCase(  
    this string strContent,  
    string strOtherString  
)
```

Parameters

strContent

Type: [System.String](#)

Content of the string.

strOtherString

Type: [System.String](#)

The string other string.

Return Value

Type: [Boolean](#)

Usage Note

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

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

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

See Also

[StringExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

StringExtension.IsEmpty Method

Liefert zurück ob ein String null oder dessen Länge 0 ist.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static bool IsEmpty(  
    this string strContent  
)
```

Parameters

strContent

Type: [System.String](#)

Return Value

Type: [Boolean](#)

Usage Note

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

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

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

See Also

[StringExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

StringExtension.IsEmpty Method

Liefert zurück ob ein String nicht null oder dessen Länge > 0 ist.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static bool IsNotEmpty(  
    this string strContent  
)
```

Parameters

strContent

Type: [System.String](#)

Return Value

Type: [Boolean](#)

Usage Note

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

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

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

See Also

[StringExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

StringExtension.RemoveQuotation Method

Removes the quotation.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static string RemoveQuotation(  
    this string strContent  
)
```

Parameters

strContent

Type: [System.String](#)

Content of the STR.

Return Value

Type: [String](#)

Usage Note

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

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

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

See Also

[StringExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

StringExtension.ReplaceHtml Method

Replaces the HTML.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static string ReplaceHtml(
    this string strContent
)
```

Parameters

strContent

Type: [System.String](#)

Content of the STR.

Return Value

Type: [String](#)

Usage Note

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

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

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

See Also

[StringExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

StringExtension.ToColor Method

Liefert aus einem String wie z.b. "#FFAACC" den Farbwert als Color Objekt zurück.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Color ToColor(  
    this string strColor,  
    Color cDefault  
)
```

Parameters

strColor

Type: [System.String](#)

cDefault

Type: [System.Windows.Media.Color](#)

Return Value

Type: [Color](#)

Usage Note

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

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

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

Remarks

Es könnten auch die .NET symbolischen Farbnamen wie "SlateBlue" übergeben werden.

See Also

[StringExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

TimeSpanExtension Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.TimeSpanExtension

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static class TimeSpanExtension
```

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

Methods

	Name	Description
 	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: 15.0.0.0 (15)

Syntax

C#

```
public static string ToHHMMSSString(  
    this TimeSpan ts  
)
```

Parameters

ts

Type: [System.TimeSpan](#)

The *ts*.

Return Value

Type: [String](#)

Usage Note

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

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

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

See Also

[TimeSpanExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

TimeSpanExtension.ToShortString Method

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

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static string ToShortString(  
    this TimeSpan ts  
)
```

Parameters

ts

Type: [System.TimeSpan](#)

The *ts*.

Return Value

Type: [String](#)

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

Usage Note

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

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

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

See Also

[TimeSpanExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

TypeExtension Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.TypeExtension

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static class TypeExtension
```

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

Methods

	Name	Description
 	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: 15.0.0.0 (15)

Syntax

C#

```
public static bool DerivedFromType(  
    this Type tClass,  
    Type tBase  
)
```

Parameters

tClass

Type: [System.Type](#)

The t class.

tBase

Type: [System.Type](#)

The t base.

Return Value

Type: [Boolean](#)

Usage Note

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

See Also

[TypeExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

TypeExtension.ImplementsInterface Method

Check if the class implements the interface.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static bool ImplementsInterface(
    this Type tClass,
    Type tInterface
)
```

Parameters

tClass

Type: [System.Type](#)

The t class.

tInterface

Type: [System.Type](#)

The t interface.

Return Value

Type: [Boolean](#)

Usage Note

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

See Also

[TypeExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Extensions.XElementExtension

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static class XElementExtension
```

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

Methods

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public static BitmapSource GetBitmapSourceFromNode(
    XElement xCurrentElement,
    string strElementName
)
```

Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](#)

The x current element.

strElementName

Type: [System.String](#)

Name of the string element.

Return Value

Type: [BitmapSource](#)

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetBoolAttribute Method

Gets the bool attribute.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Nullable<bool> GetBoolAttribute(
    this XElement eParent,
    string strName
)
```

Parameters

eParent

Type: [System.Xml.Linq.XElement](#)

The e parent.

strName

Type: [System.String](#)

Name of the string.

Return Value

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

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetBoolFromNode Method

Gets the bool from node.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Nullable<bool> GetBoolFromNode (
    this XElement xCurrentElement,
    string strElementName
)
```

Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](#)

The x current element.

strElementName

Type: [System.String](#)

Name of the string element.

Return Value

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

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetColorFromNode Method

Gets the color from node.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Color GetColorFromNode(  
    XElement xCurrentElement,  
    string strElementName,  
    Color cDefault  
)
```

Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](#)

The x current element.

strElementName

Type: [System.String](#)

Name of the string element.

cDefault

Type: [System.Windows.Media.Color](#)

The c default.

Return Value

Type: [Color](#)

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetDateTimeAttribute Method

Gets the date time attribute.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Nullable<DateTime> GetDateTimeAttribute(  
    this XElement eParent,  
    string strName,  
    bool bIsUTC = false  
)
```

Parameters

eParent

Type: [System.Xml.Linq.XElement](#)

The e parent.

strName

Type: [System.String](#)

Name of the string.

bIsUTC (Optional)

Type: [System.Boolean](#)

if set to `true` [b is UTC].

Return Value

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

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetDateTimeFromNodeUTC Method

Gets the date time from node UTC.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Nullable<DateTime> GetDateTimeFromNodeUTC (
    this XElement xCurrentElement,
    string strElementName
)
```

Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](#)

The x current element.

strElementName

Type: [System.String](#)

Name of the string element.

Return Value

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

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetDirectoryInfoFromNode Method

Gets the directory information from node.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static DirectoryInfo GetDirectoryInfoFromNode (
    XElement xCurrentElement,
    string strElementName,
    DirectoryInfo diDefault
)
```

Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](#)

The x current element.

strElementName

Type: [System.String](#)

Name of the string element.

diDefault

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

The di default.

Return Value

Type: [DirectoryInfo](#)

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetDoubleAttribute Method

Gets the double attribute.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Nullable<double> GetDoubleAttribute(
    this XElement eParent,
    string strName
)
```

Parameters

eParent

Type: [System.Xml.Linq.XElement](#)

The e parent.

strName

Type: [System.String](#)

Name of the string.

Return Value

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

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetDoubleFromNode Method

Gets the double from node.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Nullable<double> GetDoubleFromNode (
    this XElement xCurrentElement,
    string strElementName
)
```

Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](#)

The x current element.

strElementName

Type: [System.String](#)

Name of the string element.

Return Value

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

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetDoubleFromNodeComma Method

Gets the double from node comma.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Nullable<double> GetDoubleFromNodeComma (
    this XElement xCurrentElement,
    string strElementName
)
```

Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](#)

The x current element.

strElementName

Type: [System.String](#)

Name of the string element.

Return Value

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

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetDoubleFromNodePoint Method

Gets the double from node point.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Nullable<double> GetDoubleFromNodePoint(
    this XElement xCurrentElement,
    string strElementName
)
```

Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](#)

The x current element.

strElementName

Type: [System.String](#)

Name of the string element.

Return Value

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

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetEnumFromNode(*T*) Method

Gets the enum from node.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static T GetEnumFromNode<T>(
    XElement xCurrentElement,
    string strElementName,
    T tDefault
)
```

Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](#)

The x current element.

strElementName

Type: [System.String](#)

Name of the string element.

tDefault

Type: **T**

The t default.

Type Parameters

T

Return Value

Type: **T**

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetFileInfoFromNode Method

Gets the file information from node.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static FileInfo GetFileInfoFromNode(
    XElement xCurrentElement,
    string strElementName,
    FileInfo fiDefault
)
```

Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](#)

The x current element.

strElementName

Type: [System.String](#)

Name of the string element.

fiDefault

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

The fi default.

Return Value

Type: [FileInfo](#)

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetGuidIdFromNode Method

Gets the unique identifier from node.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Nullable<Guid> GetGuidIdFromNode (
    XElement xCurrentElement,
    string strElementName
)
```

Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](#)

The x current element.

strElementName

Type: [System.String](#)

Name of the string element.

Return Value

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

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetInt32Attribute Method

Gets the int32 attribute.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Nullable<int> GetInt32Attribute(
    this XElement eParent,
    string strName
)
```

Parameters

eParent

Type: [System.Xml.Linq.XElement](#)

The e parent.

strName

Type: [System.String](#)

Name of the string.

Return Value

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

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetInt32FromNode Method

Gets the int32 from node.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Nullable<int> GetInt32FromNode (
    this XElement xCurrentElement,
    string strElementName
)
```

Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](#)

The x current element.

strElementName

Type: [System.String](#)

Name of the string element.

Return Value

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

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetInt64Attribute Method

Gets the int64 attribute.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Nullable<long> GetInt64Attribute(
    this XElement eParent,
    string strName
)
```

Parameters

eParent

Type: [System.Xml.Linq.XElement](#)

The e parent.

strName

Type: [System.String](#)

Name of the string.

Return Value

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

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetLongFromNode Method

Gets the long from node.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Nullable<long> GetLongFromNode (
    this XElement xCurrentElement,
    string strElementName
)
```

Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](#)

The be current element.

strElementName

Type: [System.String](#)

Name of the STR element.

Return Value

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

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetProperty(*T*) Method

Gets the property.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static T GetProperty<T>(
    XElement eParent,
    string strElementName,
    T tDefault
)
```

Parameters

eParent

Type: [System.Xml.Linq.XElement](#)

The e parent.

strElementName

Type: [System.String](#)

Name of the string element.

tDefault

Type: **T**

The t default.

Type Parameters

T

Return Value

Type: **T**

Usage Note

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

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

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

Exceptions

Exception	Condition
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: 15.0.0.0 (15)

Syntax

C#

```
public static Nullable<float> GetSingleAttribute(
    this XElement eParent,
    string strName
)
```

Parameters

eParent

Type: [System.Xml.Linq.XElement](#)

The e parent.

strName

Type: [System.String](#)

Name of the string.

Return Value

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

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetSingleFromNode Method

Gets the single from node.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Nullable<float> GetSingleFromNode (
    this XElement xCurrentElement,
    string strElementName
)
```

Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](#)

The x current element.

strElementName

Type: [System.String](#)

Name of the string element.

Return Value

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

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetSingleFromNodeComma Method

Gets the single from node comma.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Nullable<float> GetSingleFromNodeComma (
    this XElement xCurrentElement,
    string strElementName
)
```

Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](#)

The x current element.

strElementName

Type: [System.String](#)

Name of the string element.

Return Value

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

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetSingleFromNodePoint Method

Gets the single from node point.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Nullable<float> GetSingleFromNodePoint (
    this XElement xCurrentElement,
    string strElementName
)
```

Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](#)

The x current element.

strElementName

Type: [System.String](#)

Name of the string element.

Return Value

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

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetStringAttribute Method

Gets the string attribute.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static string GetStringAttribute(  
    this XElement eParent,  
    string strName  
)
```

Parameters

eParent

Type: [System.Xml.Linq.XElement](#)

The e parent.

strName

Type: [System.String](#)

Name of the string.

Return Value

Type: [String](#)

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetStringFromCData Method

Liefert den ersten CData Eintrag des Knotens wenn einer vorhanden ist.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static string GetStringFromCData(  
    this XElement xCurrentElement,  
    string strElementName  
)
```

Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](#)

strElementName

Type: [System.String](#)

Return Value

Type: [String](#)

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetStringFromNode Method

Overload List

	Name	Description
 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: 15.0.0.0 (15)

Syntax

C#

```
public static string GetStringFromNode(
    XElement xCurrentElement,
    string strElementName
)
```

Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](#)

The be current element.

strElementName

Type: [System.String](#)

Name of the STR element.

Return Value

Type: [String](#)

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[GetStringFromNode Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetStringFromNode Method (XElement, String, String)

Gets the string from node.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static string GetStringFromNode (
    XElement xCurrentElement,
    string strNamespace,
    string strElementName
)
```

Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](#)

The be current element.

strNamespace

Type: [System.String](#)

The STR namespace.

strElementName

Type: [System.String](#)

Name of the STR element.

Return Value

Type: [String](#)

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[GetStringFromNode Overload](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetUInt32Attribute Method

Gets the u int32 attribute.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Nullable<uint> GetUInt32Attribute(
    this XElement eParent,
    string strName
)
```

Parameters

eParent

Type: [System.Xml.Linq.XElement](#)

The e parent.

strName

Type: [System.String](#)

Name of the string.

Return Value

Type: [Nullable\(UInt32\)](#)

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.GetUInt32FromNode Method

Gets the u int32 from node.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static Nullable<uint> GetUInt32FromNode(
    this XElement xCurrentElement,
    string strElementName
)
```

Parameters

xCurrentElement

Type: [System.Xml.Linq.XElement](#)

The x current element.

strElementName

Type: [System.String](#)

Name of the string element.

Return Value

Type: [Nullable\(UInt32\)](#)

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.Get XElement Method

Gets the x element.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static XElement Get XElement(
    string strPropertyName,
    Object o
)
```

Parameters

strPropertyName

Type: [System.String](#)

Name of the string property.

o

Type: [System.Object](#)

The o.

Return Value

Type: [XElement](#)

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.SaveDefault Method

Speichert einen XML Baum mit den Standardoptionen.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static void SaveDefault(
    XElement element,
    string strOutputFilename
)
```

Parameters

element

Type: [System.Xml.Linq.XElement](#)

strOutputFilename

Type: [System.String](#)

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

XElementExtension.ToString Method

To the default string.

Namespace: [SIGENCEScenarioTool.Extensions](#)

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

Syntax

C#

```
public static string ToString()  
    this XElement element  
)
```

Parameters

element

Type: [System.Xml.Linq.XElement](#)

The element.

Return Value

Type: [String](#)

Usage Note

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

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

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

See Also

[XElementExtension Class](#)

[SIGENCEScenarioTool.Extensions Namespace](#)

SIGENCEScenarioTool.Interfaces Namespace

Interfaces

	Interface	Description
	IXmlExport	

IXmlExport Interface

Namespace: [SIGENCEScenarioTool.Interfaces](#)

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

Syntax

C#

```
public interface IXmlExport
```

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

Methods

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
XElement ToXml()
```

Return Value

Type: [XElement](#)

See Also

[IXmlExport Interface](#)

[SIGENCEScenarioTool.Interfaces Namespace](#)

SIGENCEScenarioTool.Models Namespace

Classes

Class	Description
 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	
 RFDeviceTooltips	The tooltips for our properties to display in the HMI.

Enumerations

	Enumeration	Description
 AntennaType		
 DeviceSource		
 DeviceType		
 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: 15.0.0.0 (15)

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: 15.0.0.0 (15)

Syntax

C#

```
protected AbstractModelBase()
```

See Also

[AbstractModelBase Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

AbstractModelBase.AbstractModelBase Methods

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

Methods

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
protected void FirePropertyChanged(  
    string strPropertyName = null  
)
```

Parameters

strPropertyName (Optional)

Type: [System.String](#)

Name of the string property.

See Also

[AbstractModelBase Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

AbstractModelBase.AbstractModelBase Events

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

Events

	Name	Description
	PropertyChanged	

See Also

[AbstractModelBase Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

AbstractModelBase.PropertyChanged Event

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public event PropertyChangedEventHandler PropertyChanged
```

Value

Type: [System.ComponentModel.PropertyChangedEventHandler](#)

Implements

[INotifyPropertyChanged.PropertyChanged](#)

See Also

[AbstractModelBase Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

AntennaType Enumeration

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public enum AntennaType
```

Members

	Member name	Value	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public enum DeviceSource
```

Members

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

See Also

[SIGENCEScenarioTool.Models Namespace](#)

DeviceType Enumeration

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public enum DeviceType
```

Members

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

See Also

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult Class

Represent The Geo Localization Result Of A RFDevice.

Inheritance Hierarchy

[System.Object](#)

[SIGENCEScenarioTool.Models.AbstractModelBase](#)

SIGENCEScenarioTool.Models.GeoLocalizationResult

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

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

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

Constructors

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public GeoLocalizationResult()
```

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.GeoLocalizationResult Properties

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

Properties

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public uint Altitude { get; set; }
```

Property Value

Type: [UInt32](#)

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.Id Property

The Id Of The Localized RFDevice.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public int Id { get; set; }
```

Property Value

Type: [Int32](#)

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.Latitude Property

The Latitude Of The Localized RF Device (WGS84).

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public double Latitude { get; set; }
```

Property Value

Type: [Double](#)

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.LocalizationTime Property

The Localization Time.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public double LocalizationTime { get; set; }
```

Property Value

Type: [Double](#)

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.Longitude Property

The Longitude Of The Localized RF Device (WGS84).

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public double Longitude { get; set; }
```

Property Value

Type: [Double](#)

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.PrimaryKey Property

The Unique PrimaryKey For This Result.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public Guid PrimaryKey { get; set; }
```

Property Value

Type: [Guid](#)

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.GeoLocalizationResult Methods

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

Methods

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public GeoLocalizationResult Clone()
```

Return Value

Type: [GeoLocalizationResult](#)

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.Equals Method

Overload List

	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: 15.0.0.0 (15)

Syntax

C#

```
public bool Equals(  
    GeoLocalizationResult other  
)
```

Parameters

other

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

Return Value

Type: [Boolean](#)

Implements

[IEquatable\(T\).Equals\(T\)](#)

See Also

[GeoLocalizationResult Class](#)

[Equals Overload](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.FromXml Method

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static GeoLocalizationResult FromXml(  
    XElement eRoot  
)
```

Parameters

eRoot

Type: [System.Xml.Linq.XElement](#)

Return Value

Type: [GeoLocalizationResult](#)

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.ToXml Method

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public XElement ToXml()
```

Return Value

Type: [XElement](#)

Implements

[IXmlExport.ToXml\(\)](#)

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.GeoLocalizationResult Events

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

Events

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public const string ALTITUDE = "Altitude"
```

Field Value

Type: [String](#)

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.DEFAULT_ALTITUDE Field

The DefaultValue For Altitude.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly uint DEFAULT_ALTITUDE
```

Field Value

Type: [UInt32](#)

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.DEFAULT_ID Field

The DefaultValue For Id.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly int DEFAULT_ID
```

Field Value

Type: [Int32](#)

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.DEFAULT_LATITUDE Field

The DefaultValue For Latitude.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly double DEFAULT_LATITUDE
```

Field Value

Type: [Double](#)

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.DEFAULT_LOCALIZATIONTIME Field

The DefaultValue For LocalizationTime.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly double DEFAULT_LOCALIZATIONTIME
```

Field Value

Type: [Double](#)

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.DEFAULT_LONGITUDE Field

The DefaultValue For Longitude.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly double DEFAULT_LONGITUDE
```

Field Value

Type: [Double](#)

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.DEFAULT_PRIMARYKEY Field

The DefaultValue For PrimaryKey.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly Guid DEFAULT_PRIMARYKEY
```

Field Value

Type: [Guid](#)

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.ID Field

The PropertyName As ReadOnly String For Id.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public const string ID = "Id"
```

Field Value

Type: [String](#)

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.LATITUDE Field

The PropertyName As ReadOnly String For Latitude.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public const string LATITUDE = "Latitude"
```

Field Value

Type: [String](#)

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.LOCALIZATIONTIME Field

The PropertyName As ReadOnly String For LocalizationTime.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public const string LOCALIZATIONTIME = "LocalizationTime"
```

Field Value

Type: [String](#)

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.LONGITUDE Field

The PropertyName As ReadOnly String For Longitude.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public const string LONGITUDE = "Longitude"
```

Field Value

Type: [String](#)

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResult.PRIMARYKEY Field

The PropertyName As ReadOnly String For PrimaryKey.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public const string PRIMARYKEY = "PrimaryKey"
```

Field Value

Type: [String](#)

See Also

[GeoLocalizationResult Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResultList Class

Inheritance Hierarchy

[System.Object](#)

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

SIGENCEScenarioTool.Models.GeoLocalizationResultList

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

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

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

Constructors

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public GeoLocalizationResultList()
```

See Also

[GeoLocalizationResultList Class](#)

[GeoLocalizationResultList Overload](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResultList Constructor (Int32)

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

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public GeoLocalizationResultList(  
    int iInitialSize  
)
```

Parameters

iInitialSize

Type: [System.Int32](#)

Initial size of the i.

See Also

[GeoLocalizationResultList Class](#)

[GeoLocalizationResultList Overload](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResultList Constructor ([IEnumerable\(GeoLocalizationResult\)](#))

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

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public GeoLocalizationResultList(  
    IEnumerable<GeoLocalizationResult> collection  
)
```

Parameters

collection

Type: [System.Collections.Generic.IEnumerable\(GeoLocalizationResult\)](#)

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

See Also

[GeoLocalizationResultList Class](#)

[GeoLocalizationResultList Overload](#)

[SIGENCEScenarioTool.Models Namespace](#)

GeoLocalizationResultList.GeoLocalizationResultList Properties

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

Properties

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

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

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

Constructors

	Name	Description
	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_RXTYPE</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: 15.0.0.0 (15)

Syntax

C#

```
public RFDevice()
```

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.RFDevice Properties

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

Properties

	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: 15.0.0.0 (15)

Syntax

C#

```
public Altitude Altitude { get; set; }
```

Property Value

Type: [Altitude](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.AntennaType Property

AntennaType Defines The Antenna Type Used For Transmitter And Receiver Respectively. Note: Currently, Only Omnidirectional Antenna Type Is Available / Supported.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public AntennaType AntennaType { get; set; }
```

Property Value

Type: [AntennaType](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.Bandwidth_Hz Property

The Bandwidth Of The Transmitter.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public Bandwidth Bandwidth_Hz { get; set; }
```

Property Value

Type: [Bandwidth](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.CenterFrequency_Hz Property

For Transmitters (I.E. Id's ≥ 0) This Parameter Defines Transmitter Signal Center Frequency [Hz]. For Receivers (I.E. Id's < 0) This Parameter Is Currently Unused.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public Frequency CenterFrequency_Hz { get; set; }
```

Property Value

Type: [Frequency](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.DeviceSource Property

The Source Of This RF Device.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public DeviceSource DeviceSource { get; set; }
```

Property Value

Type: [DeviceSource](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.Gain_dB Property

For Transmitters (I.E. Id's ≥ 0) This Parameter Defines Transmitter Signal Power [Dbm]. For Receivers (I.E. Id's < 0) This Parameter Is Currently Unused.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public Gain Gain_dB { get; set; }
```

Property Value

Type: [Gain](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.Id Property

Every Scenario Element (I.E. Transmitter, Receiver) Must Be Assigned An Unique Id. Negative Id'S Are Reserved For Receivers While All Other Id'S Are Transmitters By Default. Some Applications (I.E. Tdoa Emitter Localization) Require A Reference Transmitter. For These Applications Id=0 Is The Reference Transmitter. Receivers Must Be Assigned First In The Table, Followed Be Transmitters (With Id=0 Being The First). After The Static Scenario, Update Of Id'S Requires No Specific Order. Note That Definition Of New Transmitters/Receivers After The Static Scenario Is Prohibited.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public int Id { get; set; }
```

Property Value

Type: [Int32](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.Latitude Property

The Latitude Of The RF Device (WGS84).

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

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

Property Value

Type: [Latitude](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.Longitude Property

The Longitude Of The RF Device (WGS84).

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

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

Property Value

Type: [Longitude](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.Name Property

A Short Describing Display Name For The RF Device.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

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

Property Value

Type: [String](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.Pitch Property

These Parameters Set The Orientation Of Transmitter / Receiver Antennas. The Respective Antenna Type Is Defined By Antennatype. The Rf Simulation Uses The Antenna Orientation To Compute The Resulting Signal Power At The Receivers.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public double Pitch { get; set; }
```

Property Value

Type: [Double](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.PrimaryKey Property

The Unique PrimarKey For This RF Device.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public Guid PrimaryKey { get; set; }
```

Property Value

Type: [Guid](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.Remark Property

A Comment Or Remark For The RF Device.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public string Remark { get; set; }
```

Property Value

Type: [String](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.Roll Property

These Parameters Set The Orientation Of Transmitter / Receiver Antennas. The Respective Antenna Type Is Defined By Antennatype. The Rf Simulation Uses The Antenna Orientation To Compute The Resulting Signal Power At The Receivers.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public double Roll { get; set; }
```

Property Value

Type: [Double](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.RxTxType Property

For All Receivers (i.e. ID's < 0) This Parameter Defines The Radio Being Used.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public RxTxType RxTxType { get; set; }
```

Property Value

Type: [RxTxType](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.SignalToNoiseRatio_dB Property

For Receivers (I.E. Id's < 0) This Parameter Is Imposes Gaussian White Noise To The Respective Receiver Signal. For Transmitters (I.E. Id's >= 0) This Parameter Is Unused.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public SignalToNoiseRatio SignalToNoiseRatio_dB { get; set; }
```

Property Value

Type: [SignalToNoiseRatio](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.StartTime Property

This Is The Simulation Time At Which The Parameters (Following The Time Parameter In The Same Line) Are Set. All Transmitters And Receivers Used In The Simulation Must Be Set At Start Of The Simulation, I.E. At Time=0. For Static Scenarios, Where Positions Or Characteristics Settings Never Change Throughout The Simulation, The Time Column Only Contains Zero's.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public double StartTime { get; set; }
```

Property Value

Type: [Double](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.XPos Property

XPos,YPos,ZPos Define The Transmitter / Receiver Positions In A Local Coordinate System With The Transmitter (ID=0) Being The Center Position.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public int XPos { get; set; }
```

Property Value

Type: [Int32](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.Yaw Property

These Parameters Set The Orientation Of Transmitter / Receiver Antennas. The Respective Antenna Type Is Defined By Antennatype. The Rf Simulation Uses The Antenna Orientation To Compute The Resulting Signal Power At The Receivers.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public double Yaw { get; set; }
```

Property Value

Type: [Double](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.YPos Property

XPos,YPos,ZPos Define The Transmitter / Receiver Positions In A Local Coordinate System With The Transmitter (ID=0) Being The Center Position.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public int YPos { get; set; }
```

Property Value

Type: [Int32](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.ZPos Property

XPos,YPos,ZPos Define The Transmitter / Receiver Positions In A Local Coordinate System With The Transmitter (ID=0) Being The Center Position.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public int ZPos { get; set; }
```

Property Value

Type: [Int32](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.RFDevice Methods

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

Methods

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public RFDevice Clone()
```

Return Value

Type: [RFDevice](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.Equals Method

Overload List

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public bool Equals(  
    RFDevice other  
)
```

Parameters

other

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

Ein Objekt, das mit diesem Objekt verglichen werden soll.

Return Value

Type: [Boolean](#)

true, wenn das aktuelle Objekt gleich dem *other*-Parameter ist, andernfalls false.

Implements

[IEquatable\(T\).Equals\(T\)](#)

See Also

[RFDevice Class](#)

[Equals Overload](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.FromXml Method

Froms the XML.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static RFDevice FromXml(  
    XElement eRoot  
)
```

Parameters

eRoot

Type: [System.Xml.Linq.XElement](#)

The e root.

Return Value

Type: [RFDevice](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.ToString Method

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

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

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

Return Value

Type: [String](#)

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

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.ToXml Method

To the XML.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public XElement ToXml()
```

Return Value

Type: [XElement](#)

Implements

[IXmlExport.ToXml\(\)](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.Validate Method

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public ValidationResultList Validate()
```

Return Value

Type: [ValidationResultList](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.RFDevice Events

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

Events

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public const string ALTITUDE = "Altitude"
```

Field Value

Type: [String](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.ANTENNATYPE Field

The PropertyName As ReadOnly String For AntennaType.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public const string ANTENNATYPE = "AntennaType"
```

Field Value

Type: [String](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.BANDWIDTH_HZ Field

The PropertyName As ReadOnly String For Bandwidth_Hz.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public const string BANDWIDTH_HZ = "Bandwidth_Hz"
```

Field Value

Type: [String](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.CENTERFREQUENCY_HZ Field

The PropertyName As ReadOnly String For CenterFrequency_Hz.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public const string CENTERFREQUENCY_HZ = "CenterFrequency_Hz"
```

Field Value

Type: [String](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.DEFAULT_ALTITUDE Field

The DefaultValue For Altitude.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly Altitude DEFAULT_ALTITUDE
```

Field Value

Type: [Altitude](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.DEFAULT_ANTENNATYPE Field

The DefaultValue For AntennaType.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly AntennaType DEFAULT_ANTENNATYPE
```

Field Value

Type: [AntennaType](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.DEFAULT_BANDWIDTH_HZ Field

The DefaultValue For Bandwidth_Hz.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly Bandwidth DEFAULT_BANDWIDTH_HZ
```

Field Value

Type: [Bandwidth](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.DEFAULT_CENTERFREQUENCY_HZ Field

The DefaultValue For CenterFrequency_Hz.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly Frequency DEFAULT_CENTERFREQUENCY_HZ
```

Field Value

Type: [Frequency](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.DEFAULT_DEVICESOURCE Field

The DefaultValue For DeviceSource.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly DeviceSource DEFAULT_DEVICESOURCE
```

Field Value

Type: [DeviceSource](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.DEFAULT_GAIN_DB Field

The DefaultValue For Gain_dB.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly Gain DEFAULT_GAIN_DB
```

Field Value

Type: [Gain](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.DEFAULT_ID Field

The DefaultValue For Id.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly int DEFAULT_ID
```

Field Value

Type: [Int32](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.DEFAULT_LATITUDE Field

The DefaultValue For Latitude.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly Latitude DEFAULT_LATITUDE
```

Field Value

Type: [Latitude](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.DEFAULT_LONGITUDE Field

The DefaultValue For Longitude.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly Longitude DEFAULT_LONGITUDE
```

Field Value

Type: [Longitude](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.DEFAULT_NAME Field

The DefaultValue For Name.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly string DEFAULT_NAME
```

Field Value

Type: [String](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.DEFAULT_PITCH Field

The DefaultValue For Pitch.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly double DEFAULT_PITCH
```

Field Value

Type: [Double](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.DEFAULT_PRIMARYKEY Field

The DefaultValue For PrimaryKey.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly Guid DEFAULT_PRIMARYKEY
```

Field Value

Type: [Guid](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.DEFAULT_REMARK Field

The DefaultValue For Remark.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly string DEFAULT_REMARK
```

Field Value

Type: [String](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.DEFAULT_ROLL Field

The DefaultValue For Roll.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly double DEFAULT_ROLL
```

Field Value

Type: [Double](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.DEFAULT_RXTXTYPE Field

The DefaultValue For RxTxType.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly RxTxType DEFAULT_RXTXTYPE
```

Field Value

Type: [RxTxType](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.DEFAULT_SIGNALTONOISERATIO_DB Field

The DefaultValue For SignalToNoiseRatio_dB.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly SignalToNoiseRatio DEFAULT_SIGNALTONOISERATIO_DB
```

Field Value

Type: [SignalToNoiseRatio](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.DEFAULT_STARTTIME Field

The DefaultValue For StartTime.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly double DEFAULT_STARTTIME
```

Field Value

Type: [Double](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.DEFAULT_XPOS Field

The DefaultValue For XPos.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly int DEFAULT_XPOS
```

Field Value

Type: [Int32](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.DEFAULT_YAW Field

The DefaultValue For Yaw.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly double DEFAULT_YAW
```

Field Value

Type: [Double](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.DEFAULT_YPOS Field

The DefaultValue For YPos.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly int DEFAULT_YPOS
```

Field Value

Type: [Int32](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.DEFAULT_ZPOS Field

The DefaultValue For ZPos.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static readonly int DEFAULT_ZPOS
```

Field Value

Type: [Int32](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.DEVICESOURCE Field

The PropertyName As ReadOnly String For DeviceSource.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public const string DEVICESOURCE = "DeviceSource"
```

Field Value

Type: [String](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.GAIN_DB Field

The PropertyName As ReadOnly String For Gain_dB.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public const string GAIN_DB = "Gain_dB"
```

Field Value

Type: [String](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.ID Field

The PropertyName As ReadOnly String For Id.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public const string ID = "Id"
```

Field Value

Type: [String](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.LATITUDE Field

The PropertyName As ReadOnly String For Latitude.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public const string LATITUDE = "Latitude"
```

Field Value

Type: [String](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.LONGITUDE Field

The PropertyName As ReadOnly String For Longitude.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public const string LONGITUDE = "Longitude"
```

Field Value

Type: [String](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.NAME Field

The PropertyName As ReadOnly String For Name.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public const string NAME = "Name"
```

Field Value

Type: [String](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.PITCH Field

The PropertyName As ReadOnly String For Pitch.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public const string PITCH = "Pitch"
```

Field Value

Type: [String](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.PRIMARYKEY Field

The PropertyName As ReadOnly String For PrimaryKey.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public const string PRIMARYKEY = "PrimaryKey"
```

Field Value

Type: [String](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.REMARK Field

The PropertyName As ReadOnly String For Remark.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public const string REMARK = "Remark"
```

Field Value

Type: [String](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.ROLL Field

The PropertyName As ReadOnly String For Roll.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public const string ROLL = "Roll"
```

Field Value

Type: [String](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.RXTXTYPE Field

The PropertyName As ReadOnly String For RxTxType.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public const string RXTXTYPE = "RxTxType"
```

Field Value

Type: [String](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.SIGNALTONOISERATIO_DB Field

The PropertyName As ReadOnly String For SignalToNoiseRatio_dB.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public const string SIGNALTONOISERATIO_DB = "SignalToNoiseRatio_dB"
```

Field Value

Type: [String](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.STARTTIME Field

The PropertyName As ReadOnly String For StartTime.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public const string STARTTIME = "StartTime"
```

Field Value

Type: [String](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.XPOS Field

The PropertyName As ReadOnly String For XPos.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public const string XPOS = "XPos"
```

Field Value

Type: [String](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.YAW Field

The PropertyName As ReadOnly String For Yaw.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public const string YAW = "Yaw"
```

Field Value

Type: [String](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.YPOS Field

The PropertyName As ReadOnly String For YPos.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public const string YPOS = "YPos"
```

Field Value

Type: [String](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDevice.ZPOS Field

The PropertyName As ReadOnly String For ZPos.

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public const string ZPOS = "ZPos"
```

Field Value

Type: [String](#)

See Also

[RFDevice Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceExtensions Class

Represent A Device Based On A Radio Frequency.

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Models.RFDeviceExtensions

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static class RFDeviceExtensions
```

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

Methods

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public static RFDevice WithAltitude(  
    this RFDevice instance,  
    Altitude value  
)
```

Parameters

instance

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

value

Type: [SIGENCEScenarioTool.Datatypes.Geo.Altitude](#)

Return Value

Type: [RFDevice](#)

Usage Note

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

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

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

See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceExtensions.WithAntennaType Method

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static RFDevice WithAntennaType(  
    this RFDevice instance,  
    AntennaType value  
)
```

Parameters

instance

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

value

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

Return Value

Type: [RFDevice](#)

Usage Note

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

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

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

See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceExtensions.WithBandwidth_Hz Method

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static RFDevice WithBandwidth_Hz (
    this RFDevice instance,
    Bandwidth value
)
```

Parameters

instance

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

value

Type: [SIGENCEScenarioTool.Datatypes.Physically.Bandwidth](#)

Return Value

Type: [RFDevice](#)

Usage Note

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

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

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

See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceExtensions.WithCenterFrequency_Hz Method

Namespace: [SIGENCEScenarioTool.Models](#)

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

Syntax

C#

```
public static RFDevice WithCenterFrequency_Hz (
    this RFDevice instance,
    Frequency value
)
```

Parameters

instance

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

value

Type: [SIGENCEScenarioTool.Datatypes.Physically.Frequency](#)

Return Value

Type: [RFDevice](#)

Usage Note

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

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceExtensions.WithDeviceSource Method

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RFDevice WithDeviceSource(  
    this RFDevice instance,  
    DeviceSource value  
)
```

Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#)

value

Type: [SIGENCEScenarioTool.Models.DeviceSource](#)

Return Value

Type: [RFDevice](#)

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceExtensions.WithGain_dB Method

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RFDevice WithGain_dB(  
    this RFDevice instance,  
    Gain value  
)
```

Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#)

value

Type: [SIGENCEScenarioTool.Datatypes.Physically.Gain](#)

Return Value

Type: [RFDevice](#)

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceExtensions.WithId Method

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RFDevice WithId(  
    this RFDevice instance,  
    int value  
)
```

Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#)

value

Type: [System.Int32](#)

Return Value

Type: [RFDevice](#)

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceExtensions.WithLatitude Method

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RFDevice WithLatitude(  
    this RFDevice instance,  
    Latitude value  
)
```

Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#)

value

Type: [SIGENCEScenarioTool.Datatypes.Geo.Latitude](#)

Return Value

Type: [RFDevice](#)

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceExtensions.WithLongitude Method

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RFDevice WithLongitude(  
    this RFDevice instance,  
    Longitude value  
)
```

Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#)

value

Type: [SIGENCEScenarioTool.Datatypes.Geo.Longitude](#)

Return Value

Type: [RFDevice](#)

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceExtensions.WithName Method

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RFDevice WithName(  
    this RFDevice instance,  
    string value  
)
```

Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#)

value

Type: [System.String](#)

Return Value

Type: [RFDevice](#)

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceExtensions.WithPitch Method

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RFDevice WithPitch(  
    this RFDevice instance,  
    double value  
)
```

Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#)

value

Type: [System.Double](#)

Return Value

Type: [RFDevice](#)

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceExtensions.WithPrimaryKey Method

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RFDevice WithPrimaryKey(  
    this RFDevice instance,  
    Guid value  
)
```

Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#)

value

Type: [System.Guid](#)

Return Value

Type: [RFDevice](#)

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceExtensions.WithRemark Method

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RFDevice WithRemark(  
    this RFDevice instance,  
    string value  
)
```

Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#)

value

Type: [System.String](#)

Return Value

Type: [RFDevice](#)

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceExtensions.WithRoll Method

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RFDevice WithRoll(  
    this RFDevice instance,  
    double value  
)
```

Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#)

value

Type: [System.Double](#)

Return Value

Type: [RFDevice](#)

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceExtensions.WithRxTxType Method

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RFDevice WithRxTxType(  
    this RFDevice instance,  
    RxTxType value  
)
```

Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#)

value

Type: [SIGENCEScenarioTool.Models.RxTxTypes.RxTxType](#)

Return Value

Type: [RFDevice](#)

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceExtensions.WithSignalToNoiseRatio_dB Method

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RFDevice WithSignalToNoiseRatio_dB(
    this RFDevice instance,
    SignalToNoiseRatio value
)
```

Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#)

value

Type: [SIGENCEScenarioTool.Datatypes.Physically.SignalToNoiseRatio](#)

Return Value

Type: [RFDevice](#)

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceExtensions.WithStartTime Method

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RFDevice WithStartTime(
    this RFDevice instance,
    double value
)
```

Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#)

value

Type: [System.Double](#)

Return Value

Type: [RFDevice](#)

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceExtensions.WithXPos Method

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RFDevice WithXPos(  
    this RFDevice instance,  
    int value  
)
```

Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#)

value

Type: [System.Int32](#)

Return Value

Type: [RFDevice](#)

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceExtensions.WithYaw Method

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RFDevice WithYaw(  
    this RFDevice instance,  
    double value  
)
```

Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#)

value

Type: [System.Double](#)

Return Value

Type: [RFDevice](#)

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceExtensions.WithYPos Method

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RFDevice WithYPos(  
    this RFDevice instance,  
    int value  
)
```

Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#)

value

Type: [System.Int32](#)

Return Value

Type: [RFDevice](#)

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceExtensions.WithZPos Method

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RFDevice WithZPos(  
    this RFDevice instance,  
    int value  
)
```

Parameters

instance

Type: [SIGENCEScenarioTool.Models.RFDevice](#)

value

Type: [System.Int32](#)

Return Value

Type: [RFDevice](#)

Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [RFDevice](#).

When you use instance method syntax to call this method, omit the first parameter. For more

information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

See Also

[RFDeviceExtensions Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceList Class

Inheritance Hierarchy

[System.Object](#)

[System.Collections.Generic.List\(RFDevice\)](#)

SIGENCEScenarioTool.Models.RFDeviceList

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public sealed class RFDeviceList : List<RFDevice>
```

The **RFDeviceList** type exposes the following members.

Constructors

	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: 15.0.0.0 (15)

Syntax

C#

```
public RFDeviceList()
```

See Also

[RFDeviceList Class](#)

[RFDeviceList Overload](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceList Constructor (Int32)

Initializes a new instance of the [RFDeviceList](#) class.

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public RFDeviceList(  
    int iInitialSize  
)
```

Parameters

iInitialSize

Type: [System.Int32](#)

Initial size of the i.

See Also

[RFDeviceList Class](#)

[RFDeviceList Overload](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceList Constructor (IEnumerable(RFDevice))

Initializes a new instance of the [RFDeviceList](#) class.

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public RFDeviceList(  
    IEnumerable<RFDevice> collection  
)
```

Parameters

collection

Type: [System.Collections.Generic.IEnumerable\(RFDevice\)](#)

Die Auflistung, deren Elemente in die neue Liste kopiert werden.

See Also

[RFDeviceList Class](#)

[RFDeviceList Overload](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceList.RFDeviceList Properties

The [RFDeviceList](#) type exposes the following members.

Properties

	Name	Description
	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.
 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: 15.0.0.0 (15)

Syntax

C#

```
public static RFDeviceList CreateRandomizedRFDeviceList(  
    int iMaxCount,  
    PointLatLng plCenter,  
    bool bEnsureRefDevice = false  
)
```

Parameters

iMaxCount

Type: [System.Int32](#)

The i maximum count.

plCenter

Type: [PointLatLng](#)

The PLL center.

bEnsureRefDevice (Optional)

Type: [System.Boolean](#)

if set to `true` [b ensure reference device].

Return Value

Type: [RFDeviceList](#)

See Also

[RFDeviceList Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceTooltips Class

The tooltips for our properties to display in the HMI.

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Models.RFDeviceTooltips

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public sealed class RFDeviceTooltips
```

The **RFDeviceTooltips** type exposes the following members.

Constructors

	Name	Description
	RFDeviceTooltips	Initializes a new instance of the RFDeviceTooltips class

Properties

	Name	Description
	TOOLTIP_ALTITUDE	The tooltip for the Altitude.
	TOOLTIP_ANTENNATYPE	The tooltip for the AntennaType.
	TOOLTIP_BANDWIDTH_HZ	The tooltip for the Bandwidth_Hz.
	TOOLTIP_CENTERFREQUENCY_HZ	The tooltip for the CenterFrequency_Hz.
	TOOLTIP_DEVICESOURCE	The tooltip for the DeviceSource.
	TOOLTIP_GAIN_DB	The tooltip for the Gain_db.
	TOOLTIP_ID	The tooltip for the Id.
	TOOLTIP_LATITUDE	The tooltip for the Latitude.
	TOOLTIP_LONGITUDE	The tooltip for the Longitude.
	TOOLTIP_NAME	The tooltip for the Name.
	TOOLTIP_PITCH	The tooltip for the Pitch.
	TOOLTIP_PRIMARYKEY	The tooltip for the PrimaryKey.
	TOOLTIP_REMARK	The tooltip for the Remark.
	TOOLTIP_ROLL	The tooltip for the Roll.
	TOOLTIP_RXTXTYPE	The tooltip for the RxTxType.
	TOOLTIP_SIGNALTONOISERATIO_DB	The tooltip for the SignalToNoiseRatio_db.

	TOOLTIP_STARTTIME	The tooltip for the StartTime.
	TOOLTIP_XPOS	The tooltip for the XPos.
	TOOLTIP_YAW	The tooltip for the Yaw.
	TOOLTIP_YPOS	The tooltip for the YPos.
	TOOLTIP_ZPOS	The tooltip for the ZPos.

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 Namespace](#)

RFDeviceTooltips Constructor

Initializes a new instance of the [RFDeviceTooltips](#) class

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public RFDeviceTooltips()
```

See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceTooltips.RFDeviceTooltips Properties

The [RFDeviceTooltips](#) type exposes the following members.

Properties

	Name	Description
	TOOLTIP_ALTITUDE	The tooltip for the Altitude.
	TOOLTIP_ANTENNATYPE	The tooltip for the AntennaType.
	TOOLTIP_BANDWIDTH_HZ	The tooltip for the Bandwidth_Hz.
	TOOLTIP_CENTERFREQUENCY_HZ	The tooltip for the CenterFrequency_Hz.
	TOOLTIP_DEVICESOURCE	The tooltip for the DeviceSource.
	TOOLTIP_GAIN_DB	The tooltip for the Gain_dB.
	TOOLTIP_ID	The tooltip for the Id.
	TOOLTIP_LATITUDE	The tooltip for the Latitude.
	TOOLTIP_LONGITUDE	The tooltip for the Longitude.
	TOOLTIP_NAME	The tooltip for the Name.
	TOOLTIP_PITCH	The tooltip for the Pitch.
	TOOLTIP_PRIMARYKEY	The tooltip for the PrimaryKey.
	TOOLTIP_REMARK	The tooltip for the Remark.
	TOOLTIP_ROLL	The tooltip for the Roll.
	TOOLTIP_RXTXTYPE	The tooltip for the RxTxType.
	TOOLTIP_SIGNALTONOISERATIO_DB	The tooltip for the SignalToNoiseRatio_dB.
	TOOLTIP_STARTTIME	The tooltip for the StartTime.
	TOOLTIP_XPOS	The tooltip for the XPos.
	TOOLTIP_YAW	The tooltip for the Yaw.
	TOOLTIP_YPOS	The tooltip for the YPos.
	TOOLTIP_ZPOS	The tooltip for the ZPos.

See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceTooltips.TOOLTIP_ALTITUDE Property

The tooltip for the Altitude.

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public string TOOLTIP_ALTITUDE { get; }
```

Property Value

Type: [String](#)

See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceTooltips.TOOLTIP_ANTENNATYPE Property

The tooltip for the AntennaType.

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public string TOOLTIP_ANTENNATYPE { get; }
```

Property Value

Type: [String](#)

See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceTooltips.TOOLTIP_BANDWIDTH_HZ Property

The tooltip for the Bandwidth_Hz.

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public string TOOLTIP_BANDWIDTH_HZ { get; }
```

Property Value

Type: [String](#)

See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceTooltips.TOOLTIP_CENTERFREQUENCY_HZ Property

The tooltip for the CenterFrequency_Hz.

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public string TOOLTIP_CENTERFREQUENCY_HZ { get; }
```

Property Value

Type: [String](#)

See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceTooltips.TOOLTIP_DEVICESOURCE Property

The tooltip for the DeviceSource.

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public string TOOLTIP_DEVICESOURCE { get; }
```

Property Value

Type: [String](#)

See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceTooltips.TOOLTIP_GAIN_DB Property

The tooltip for the Gain_dB.

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public string TOOLTIP_GAIN_DB { get; }
```

Property Value

Type: [String](#)

See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceTooltips.TOOLTIP_ID Property

The tooltip for the Id.

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public string TOOLTIP_ID { get; }
```

Property Value

Type: [String](#)

See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceTooltips.TOOLTIP_LATITUDE Property

The tooltip for the Latitude.

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public string TOOLTIP_LATITUDE { get; }
```

Property Value

Type: [String](#)

See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceTooltips.TOOLTIP_LONGITUDE Property

The tooltip for the Longitude.

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public string TOOLTIP_LONGITUDE { get; }
```

Property Value

Type: [String](#)

See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceTooltips.TOOLTIP_NAME Property

The tooltip for the Name.

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public string TOOLTIP_NAME { get; }
```

Property Value

Type: [String](#)

See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceTooltips.TOOLTIP_PITCH Property

The tooltip for the Pitch.

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public string TOOLTIP_PITCH { get; }
```

Property Value

Type: [String](#)

See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceTooltips.TOOLTIP_PRIMARYKEY Property

The tooltip for the PrimaryKey.

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public string TOOLTIP_PRIMARYKEY { get; }
```

Property Value

Type: [String](#)

See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceTooltips.TOOLTIP_REMARK Property

The tooltip for the Remark.

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public string TOOLTIP_REMARK { get; }
```

Property Value

Type: [String](#)

See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceTooltips.TOOLTIP_ROLL Property

The tooltip for the Roll.

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public string TOOLTIP_ROLL { get; }
```

Property Value

Type: [String](#)

See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceTooltips.TOOLTIP_RXTXTYPE Property

The tooltip for the RxTxType.

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public string TOOLTIP_RXTXTYPE { get; }
```

Property Value

Type: [String](#)

See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceTooltips.TOOLTIP_SIGNALTONOISERATIO_DB Property

The tooltip for the SignalToNoiseRatio_dB.

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public string TOOLTIP_SIGNALTONOISERATIO_DB { get; }
```

Property Value

Type: [String](#)

See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceTooltips.TOOLTIP_STARTTIME Property

The tooltip for the StartTime.

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public string TOOLTIP_STARTTIME { get; }
```

Property Value

Type: [String](#)

See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceTooltips.TOOLTIP_XPOS Property

The tooltip for the XPos.

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public string TOOLTIP_XPOS { get; }
```

Property Value

Type: [String](#)

See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceTooltips.TOOLTIP_YAW Property

The tooltip for the Yaw.

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public string TOOLTIP_YAW { get; }
```

Property Value

Type: [String](#)

See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceTooltips.TOOLTIP_YPOS Property

The tooltip for the YPos.

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public string TOOLTIP_YPOS { get; }
```

Property Value

Type: [String](#)

See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceTooltips.TOOLTIP_ZPOS Property

The tooltip for the ZPos.

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public string TOOLTIP_ZPOS { get; }
```

Property Value

Type: [String](#)

See Also

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

RFDeviceTooltips.RFDeviceTooltips Methods

The [RFDeviceTooltips](#) type exposes the following members.

Methods

	Name	Description
	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

[RFDeviceTooltips Class](#)

[SIGENCEScenarioTool.Models Namespace](#)

Servity Enumeration

Namespace: [SIGENCEScenarioTool.Models](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public enum Servity
```

Members

	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.RxTxTypes Namespace

Classes

	Class	Description
	RxTxType	A class to encapsule an RxTxType.
	RxTxTypes	A class with all known RxTxTypes as static Property.

RxTxType Class

A class to encapsule an RxTxType.

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Models.RxTxTypes.RxTxType

Namespace: [SIGENCEScenarioTool.Models.RxTxTypes](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public sealed class RxTxType
```

The **RxTxType** type exposes the following members.

Properties

	Name	Description
	Name	Gets the name.
	Remark	Gets the remark.
	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 this instance. (Overrides Object.ToString() .)

Operators

	Name	Description
	Implicit(RxTxType to Int32)	Performs an implicit conversion from RxTxType to Int32 .

See Also

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxType.RxTxType Properties

The [RxTxType](#) type exposes the following members.

Properties

	Name	Description
	Name	Gets the name.
	Remark	Gets the remark.
	Value	Gets the value.

See Also

[RxTxType Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxType.Name Property

Gets the name.

Namespace: [SIGENCEScenarioTool.Models.RxTxTypes](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public string Name { get; }
```

Property Value

Type: [String](#)

The name.

See Also

[RxTxType Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxType.Remark Property

Gets the remark.

Namespace: [SIGENCEScenarioTool.Models.RxTxTypes](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public string Remark { get; }
```

Property Value

Type: [String](#)

The remark.

See Also

[RxTxType Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxType.Value Property

Gets the value.

Namespace: [SIGENCEScenarioTool.Models.RxTxTypes](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public int Value { get; }
```

Property Value

Type: [Int32](#)

The value.

See Also

[RxTxType Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxType.RxTxType Methods

The [RxTxType](#) type exposes the following members.

Methods

	Name	Description
	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 this instance. (Overrides Object.ToString() .)

See Also

[RxTxType Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxType.ToString Method

Returns a [String](#) that represents this instance.

Namespace: [SIGENCEScenarioTool.Models.RxTxTypes](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public override string ToString()
```

Return Value

Type: [String](#)

A [String](#) that represents this instance.

See Also

[RxTxType Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxType.RxTxType Type Conversions

The [RxTxType](#) type exposes the following members.

Operators

	Name	Description
 	Implicit(RxTxType to Int32)	Performs an implicit conversion from RxTxType to Int32 .

See Also

[RxTxType Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxType Implicit Conversion (RxTxType to Int32)

Performs an implicit conversion from [RxTxType](#) to [Int32](#).

Namespace: [SIGENCEScenarioTool.Models.RxTxTypes](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static implicit operator int (
    RxTxType rtt
)
```

Parameters

rtt

Type: [SIGENCEScenarioTool.Models.RxTxTypes.RxTxType](#)

The RTT.

Return Value

Type: [Int32](#)

The result of the conversion.

See Also

[RxTxType Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxTypes Class

A class with all known RxTxTypes as static Property.

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Models.RxTxTypes.RxTxTypes

Namespace: [SIGENCEScenarioTool.Models.RxTxTypes](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static class RxTxTypes
```

The **RxTxTypes** type exposes the following members.

Properties

	Name	Description
	AIS	AIS Signal.
	B200mini	Ettus B200mini.
	FMBroadcast	This Is A Fm Broadcast Radio Transmitter (Awgn Noise Signal) With Input 20Khz Signal And 50Khz Bandwidth.
	GPSJammer	10MHz L1 GPS Jammer.
	HackRF	HackRF One.
	IdealSDR	Ideal Sdr Receiver (Passes Signal Through).
	Iridium	Iridium Satcom Transmitter.
	LTE	LTE Signal.
	NFMRadio	Narrow Fm Band (Voice With 5Khz Bandwidth).
	QPSK	QPSK Signal With 2kHz Bandwidth.
	SIN	This Is A Sine Generator A 500Hz Frequency.

	TwinRx	Ettus X310 / TwinRx.
	Unknown	Unknown RxTxType.
	Values	Gets the list with all RxTxType's.

Methods

	Name	Description
	FromInt	Returns the RxTxType from a int value.
	FromString	Froms the string.

See Also

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxTypes.RxTxTypes Properties

The [RxTxTypes](#) type exposes the following members.

Properties

	Name	Description
	AIS	AIS Signal.
		
	B200mini	Ettus B200mini.
		
	FMBroadcast	This Is A Fm Broadcast Radio Transmitter (Awgn Noise Signal) With Input 20Khz Signal And 50Khz Bandwidth.
	GPSJammer	10MHz L1 GPS Jammer.
		
	HackRF	HackRF One.
		
	IdealSDR	Ideal Sdr Receiver (Passes Signal Through).
		
	Iridium	Iridium Satcom Transmitter.
		
	LTE	LTE Signal.
		
	NFMRadio	Narrow Fm Band (Voice With 5Khz Bandwidth).
		
	QPSK	QPSK Signal With 2kHz Bandwidth.
		
	SIN	This Is A Sine Generator A 500Hz Frequency.
		
	TwinRx	Ettus X310 / TwinRx.
		
	Unknown	Unknown RxTxType.
		
	Values	Gets the list with all RxTxType's.
		

See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxTypes.AIS Property

AIS Signal.

Namespace: [SIGENCEScenarioTool.Models.RxTxTypes](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RxTxType AIS { get; }
```

Property Value

Type: [RxTxType](#)

See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxTypes.B200mini Property

Ettus B200mini.

Namespace: [SIGENCEScenarioTool.Models.RxTxTypes](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RxTxType B200mini { get; }
```

Property Value

Type: [RxTxType](#)

See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxTypes.FMBroadcast Property

This Is A Fm Broadcast Radio Transmitter (Awgn Noise Signal) With Input 20Khz Signal And 50Khz Bandwidth.

Namespace: [SIGENCEScenarioTool.Models.RxTxTypes](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RxTxType FMBroadcast { get; }
```

Property Value

Type: [RxTxType](#)

See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxTypes.GPSJammer Property

10MHz L1 GPS Jammer.

Namespace: [SIGENCEScenarioTool.Models.RxTxTypes](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RxTxType GPSJammer { get; }
```

Property Value

Type: [RxTxType](#)

See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxTypes.HackRF Property

HackRF One.

Namespace: [SIGENCEScenarioTool.Models.RxTxTypes](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RxTxType HackRF { get; }
```

Property Value

Type: [RxTxType](#)

See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxTypes.IdealSDR Property

Ideal Sdr Receiver (Passes Signal Through).

Namespace: [SIGENCEScenarioTool.Models.RxTxTypes](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RxTxType IdealSDR { get; }
```

Property Value

Type: [RxTxType](#)

See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxTypes.Iridium Property

Iridium Satcom Transmitter.

Namespace: [SIGENCEScenarioTool.Models.RxTxTypes](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RxTxType Iridium { get; }
```

Property Value

Type: [RxTxType](#)

See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxTypes.LTE Property

LTE Signal.

Namespace: [SIGENCEScenarioTool.Models.RxTxTypes](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RxTxType LTE { get; }
```

Property Value

Type: [RxTxType](#)

See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxTypes.NFMRadio Property

Narrow Fm Band (Voice With 5Khz Bandwidth).

Namespace: [SIGENCEScenarioTool.Models.RxTxTypes](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RxTxType NFMRadio { get; }
```

Property Value

Type: [RxTxType](#)

See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxTypes.QPSK Property

QPSK Signal With 2kHz Bandwidth.

Namespace: [SIGENCEScenarioTool.Models.RxTxTypes](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RxTxType QPSK { get; }
```

Property Value

Type: [RxTxType](#)

See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxTypes.SIN Property

This Is A Sine Generator A 500Hz Frequency.

Namespace: [SIGENCEScenarioTool.Models.RxTxTypes](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RxTxType SIN { get; }
```

Property Value

Type: [RxTxType](#)

See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxTypes.TwinRx Property

Ettus X310 / TwinRx.

Namespace: [SIGENCEScenarioTool.Models.RxTxTypes](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RxTxType TwinRx { get; }
```

Property Value

Type: [RxTxType](#)

See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxTypes.Unknown Property

Unknown RxTxType.

Namespace: [SIGENCEScenarioTool.Models.RxTxTypes](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RxTxType Unknown { get; }
```

Property Value

Type: [RxTxType](#)

See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxTypes.Values Property

Gets the list with all RxTxType's.

Namespace: [SIGENCEScenarioTool.Models.RxTxTypes](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static IReadOnlyCollection<RxTxType> Values { get; }
```

Property Value

Type: [IReadOnlyCollection\(RxTxType\)](#)

The values.

See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxTypes.RxTxTypes Methods

The [RxTxTypes](#) type exposes the following members.

Methods

	Name	Description
	FromInt	Returns the RxTxType from a int value.
	FromString	Froms the string.

See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxTypes.FromInt Method

Returns the RxTxType from a int value.

Namespace: [SIGENCEScenarioTool.Models.RxTxTypes](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RxTxType FromInt(  
    int iRFDeviceId,  
    int iValue  
)
```

Parameters

iRFDeviceId

Type: [System.Int32](#)

The rf device identifier.

iValue

Type: [System.Int32](#)

The value.

Return Value

Type: [RxTxType](#)

Remarks

Because the RxTxType as integer is not unique, it is important to have the rfdeviceid to choose the right RxTxType.

See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

RxTxTypes.FromString Method

Froms the string.

Namespace: [SIGENCEScenarioTool.Models.RxTxTypes](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static RxTxType FromString(  
    string strName  
)
```

Parameters

strName

Type: [System.String](#)

Name of the string.

Return Value

Type: [RxTxType](#)

See Also

[RxTxTypes Class](#)

[SIGENCEScenarioTool.Models.RxTxTypes Namespace](#)

SIGENCEScenarioTool.Models.Validation Namespace

Classes

	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: 15.0.0.0 (15)

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: 15.0.0.0 (15)

Syntax

C#

```
public ValidationResult(  
    Servity sServity,  
    string strMessage,  
    Object oSource,  
    string strPropertyName,  
    Object oValue  
)
```

Parameters

sServity

Type: [SIGENCEScenarioTool.Models.Servity](#)

The servity.

strMessage

Type: [System.String](#)

The message.

oSource

Type: [System.Object](#)

The source.

strPropertyName

Type: [System.String](#)

Name of the property.

oValue

Type: [System.Object](#)

The value.

See Also

[ValidationResult Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

ValidationResult.ValidationResult Properties

The [ValidationResult](#) type exposes the following members.

Properties

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public Guid Id { get; }
```

Property Value

Type: [Guid](#)

The identifier.

See Also

[ValidationResult Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

ValidationResult.Message Property

Gets the message.

Namespace: [SIGENCEScenarioTool.Models.Validation](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public string Message { get; }
```

Property Value

Type: [String](#)

The message.

See Also

[ValidationResult Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

ValidationResult.PropertyName Property

Gets the property.

Namespace: [SIGENCEScenarioTool.Models.Validation](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public string PropertyName { get; }
```

Property Value

Type: [String](#)

The property.

See Also

[ValidationResult Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

ValidationResult.Servity Property

Gets the servity.

Namespace: [SIGENCEScenarioTool.Models.Validation](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public Servity Servity { get; }
```

Property Value

Type: [Servity](#)

The servity.

See Also

[ValidationResult Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

ValidationResult.Source Property

Gets the source.

Namespace: [SIGENCEScenarioTool.Models.Validation](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public Object Source { get; }
```

Property Value

Type: [Object](#)

The source.

See Also

[ValidationResult Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

ValidationResult.Timestamp Property

Gets the timestamp.

Namespace: [SIGENCEScenarioTool.Models.Validation](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public DateTime Timestamp { get; }
```

Property Value

Type: [DateTime](#)

The timestamp.

See Also

[ValidationResult Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

ValidationResult.Value Property

Gets the value.

Namespace: [SIGENCEScenarioTool.Models.Validation](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public Object Value { get; }
```

Property Value

Type: [Object](#)

The value.

See Also

[ValidationResult Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

ValidationResult.ValidationResult Methods

The [ValidationResult](#) type exposes the following members.

Methods

	Name	Description
 	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: 15.0.0.0 (15)

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: 15.0.0.0 (15)

Syntax

C#

```
public ValidationResultList()
```

See Also

[ValidationResultList Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

ValidationResultList.ValidationResultList Properties

The [ValidationResultList](#) type exposes the following members.

Properties

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public static ValidationResultList Empty { get; }
```

Property Value

Type: [ValidationResultList](#)

The empty.

See Also

[ValidationResultList Class](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

ValidationResultList.ValidationResultList Methods

The [ValidationResultList](#) type exposes the following members.

Methods

Name	Description
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: 15.0.0.0 (15)

Syntax

C#

```
public void Add(  
    Servity sServity,  
    string strMessage,  
    Object oSource,  
    string strPropertyName,  
    Object oValue  
)
```

Parameters

sServity

Type: [SIGENCEScenarioTool.Models.Servity](#)

The s servity.

strMessage

Type: [System.String](#)

The string message.

oSource

Type: [System.Object](#)

The o source.

strPropertyName

Type: [System.String](#)

Name of the string property.

oValue

Type: [System.Object](#)

The o value.

See Also

[ValidationResultList Class](#)

[Add Overload](#)

[SIGENCEScenarioTool.Models.Validation Namespace](#)

SIGENCEScenarioTool.Tools Namespace

Classes

Class	Description
 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: 15.0.0.0 (15)

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: 15.0.0.0 (15)

Syntax

C#

```
public static void FadeWhiteToBlack()
```

See Also

[Blink Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Blink.Off Method

Offs the LED.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static void Off()
```

See Also

[Blink Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Blink.On Method

Ons the LED.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static void On()
```

See Also

[Blink Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

BlinkSetColor Method

Overload List

	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: 15.0.0.0 (15)

Syntax

C#

```
public static void SetColor(  
    Color c  
)
```

Parameters

c

Type: [System.Windows.Media.Color](#)

The c.

See Also

[Blink Class](#)

[SetColor Overload](#)

[SIGENCEScenarioTool.Tools Namespace](#)

BlinkSetColor Method (Int32, Int32, Int32)

Sets the color.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static void SetColor(  
    int iR,  
    int iG,  
    int iB  
)
```

Parameters

iR

Type: [System.Int32](#)

The i r.

iG

Type: [System.Int32](#)

The i g.

iB

Type: [System.Int32](#)

The i b.

See Also

[Blink Class](#)

[SetColor Overload](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Blink.Show Method

Shows the specified number of time.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static void Show(
    ushort numberoftime,
    ushort numberofmillisecondon,
    ushort numberofmillisecondoff,
    Color c
)
```

Parameters

numberoftime

Type: [System.UInt16](#)

The number of time.

numberofmillisecondon

Type: [System.UInt16](#)

The number of millisecond on.

numberofmillisecondoff

Type: [System.UInt16](#)

The number of millisecond off.

c

Type: [System.Windows.Media.Color](#)

The c.

See Also

[Blink Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Blink.Test Method

Tests this instance.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static void Test()
```

See Also

[Blink Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

GeoHelper Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Tools.GeoHelper

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static class GeoHelper
```

The **GeoHelper** type exposes the following members.

Methods

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public static PointLatLng CoordinateToPointLatLng(  
    Coordinate c  
)
```

Parameters

c

Type: **Coordinate**

Return Value

Type: **PointLatLng**

See Also

[GeoHelper Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

GeoHelper.CreatePolygon Method

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static Polygon CreatePolygon(  
    params Point[] points  
)
```

Parameters

points

Type: **Point[]**

Return Value

Type: **Polygon**

See Also

[GeoHelper Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

GeoHelper.GeometryToString Method

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static string GeometryToString(  
    IGeometry geo  
)
```

Parameters

geo

Type: **IGeometry**

Return Value

Type: [**String**](#)

See Also

[GeoHelper Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

GeoHelper.StringToGeometry Method

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static IGeometry StringToGeometry(  
    string strWKBAsString  
)
```

Parameters

strWKBAsString

Type: [System.String](#)

Return Value

Type: **IGeometry**

See Also

[GeoHelper Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

GeoHelper.GeoHelper Fields

The [GeoHelper](#) type exposes the following members.

Fields

	Name	Description
 S	GERMANY_CENTERPOINT	

See Also

[GeoHelper Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

GeoHelper.GERMANY_CENTERPOINT Field

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static readonly Point GERMANY_CENTERPOINT
```

Field Value

Type: **Point**

See Also

[GeoHelper Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

GeoTag Enumeration

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public enum GeoTag
```

Members

Member name	Value	Description
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: 15.0.0.0 (15)

Syntax

C#

```
public enum Highway
```

Members

Member name	Value	Description
Motorway	0	Autobahn https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dmotorway
Trunk	1	Autobahnähnliche Straße https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dtrunk
Primary	2	Bundesstraße https://wiki.openstreetmap.org/wiki/DE:Tag:highway%3Dprimary
Secondary	3	Landes-, (Staats-,) oder sehr gut 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/DE: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: 15.0.0.0 (15)

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
 S	Error	Errors the specified ex.
 S	HereIAm	Heres the i am.
 S	Information(String)	Informations the specified string information text.
 S	Information(String, Object[])	Informations the specified string format.
 S	NotYetImplemented	Nots the yet implemented.
 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.Error Method

Errors the specified ex.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static void Error(  
    Exception ex,  
    string strCallerName = null  
)
```

Parameters

ex

Type: [System.Exception](#)

The ex.

strCallerName (Optional)

Type: [System.String](#)

Name of the string caller.

See Also

[MB Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

MB.HerelAm Method

Heres the i am.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static void HereIAm(  
    string strCallerName = null  
)
```

Parameters

strCallerName (Optional)

Type: [System.String](#)

Name of the string caller.

See Also

[MB Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

MB.Information Method

Overload List

	Name	Description
 	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: 15.0.0.0 (15)

Syntax

C#

```
public static void Information(  
    string strInformationText  
)
```

Parameters

strInformationText

Type: [System.String](#)

The string information text.

See Also

[MB Class](#)

[Information Overload](#)

[SIGENCEScenarioTool.Tools Namespace](#)

MB.Information Method (String, Object[])

Informations the specified string format.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static void Information(
    string strFormat,
    params Object[] param
)
```

Parameters

strFormat

Type: [System.String](#)

The string format.

param

Type: [System.Object](#)[]

The parameter.

See Also

[MB Class](#)

[Information Overload](#)

[SIGENCEScenarioTool.Tools Namespace](#)

MB.NotYetImplemented Method

Notes the yet implemented.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static void NotYetImplemented(
    string strCallerName = null
)
```

Parameters

strCallerName (Optional)

Type: [System.String](#)

Name of the string caller.

See Also

[MB Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

MB.Warning Method

Overload List

	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: 15.0.0.0 (15)

Syntax

C#

```
public static void Warning(  
    string strInformationText  
)
```

Parameters

strInformationText

Type: [System.String](#)

The string information text.

See Also

[MB Class](#)

[Warning Overload](#)

[SIGENCEScenarioTool.Tools Namespace](#)

MB.Warning Method (String, Object[])

Warnings the specified string format.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static void Warning(  
    string strFormat,  
    params Object[] param  
)
```

Parameters

strFormat

Type: [System.String](#)

The string format.

param

Type: [System.Object](#)[]

The parameter.

See Also

[MB Class](#)

[Warning Overload](#)

[SIGENCEScenarioTool.Tools Namespace](#)

PythonSyntaxModeFileProvider Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Tools.PythonSyntaxModeFileProvider

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public sealed class PythonSyntaxModeFileProvider : ISyntaxModeFileProvider
```

The **PythonSyntaxModeFileProvider** type exposes the following members.

Constructors

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public PythonSyntaxModeFileProvider()
```

See Also

[PythonSyntaxModeFileProvider Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

PythonSyntaxModeFileProvider.PythonSyntaxModeFileProvider

Properties

The [PythonSyntaxModeFileProvider](#) type exposes the following members.

Properties

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public ICollection<SyntaxMode> SyntaxModes { get; }
```

Property Value

Type: [ICollection\(SyntaxMode\)](#)

Implements

ISyntaxModeFileProvider.SyntaxModes

See Also

[PythonSyntaxModeFileProvider Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

PythonSyntaxModeFileProvider.PythonSyntaxModeFileProvider

Methods

The [PythonSyntaxModeFileProvider](#) type exposes the following members.

Methods

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public XmlTextReader GetSyntaxModeFile(  
    SyntaxMode syntaxMode  
)
```

Parameters

syntaxMode

Type: **SyntaxMode**

The syntax mode.

Return Value

Type: [XmlTextReader](#)

Implements

ISyntaxModeFileProvider.GetSyntaxModeFile(SyntaxMode)

See Also

[PythonSyntaxModeFileProvider Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

PythonSyntaxModeFileProvider.UpdateSyntaxModeList Method

Updates the syntax mode list.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public void UpdateSyntaxModeList()
```

Implements

[ISyntaxModeFileProvider.UpdateSyntaxModeList\(\)](#)

See Also

[PythonSyntaxModeFileProvider Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Speech Class

Klasse zum Ausgeben von Text in Sprache mittels Microsoft SAM.

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Tools.Speech

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public sealed class Speech : IDisposable
```

The **Speech** type exposes the following members.

Constructors

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public Speech()
```

See Also

[Speech Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Speech.Speech Properties

The [Speech](#) type exposes the following members.

Properties

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public SynthesizerState State { get; }
```

Property Value

Type: [SynthesizerState](#)

The state.

See Also

[Speech Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Speech.Speech Methods

The [Speech](#) type exposes the following members.

Methods

	Name	Description
	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: 15.0.0.0 (15)

Syntax

C#

```
public void Dispose()
```

Implements

[IDisposable.Dispose\(\)](#)

See Also

[Speech Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Speech.Say Method

Says the specified string content.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static void Say(  
    string strContent  
)
```

Parameters

strContent

Type: [System.String](#)

Content of the string.

See Also

[Speech Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Speech.Speak Method

Gibt den übergebenen Text aus.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public void Speak(  
    string strContent  
)
```

Parameters

strContent

Type: [System.String](#)

Content of the string.

See Also

[Speech Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Tool Class

Klasse mit statischen Standalonefunktionen.

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Tools.Tool

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static class Tool
```

The **Tool** type exposes the following members.

Properties

	Name	Description
 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: 15.0.0.0 (15)

Syntax

C#

```
public static string ProductName { get; }
```

Property Value

Type: [String](#)

The name of the product.

See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Tool.ProductTitle Property

Gets the product title.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static string ProductTitle { get; }
```

Property Value

Type: [String](#)

The product title.

See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Tool.StartupPath Property

Gets the startup path.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static string StartupPath { get; }
```

Property Value

Type: [String](#)

The startup path.

See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Tool.Version Property

Gets the version.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static string Version { get; }
```

Property Value

Type: [String](#)

The version.

See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Tool.Tool Methods

The [Tool](#) type exposes the following members.

Methods

	Name	Description
 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: 15.0.0.0 (15)

Syntax

C#

```
public static double GetGrad(  
    double grad,  
    double minutes,  
    double seconds  
)
```

Parameters

grad

Type: [System.Double](#)

The grad.

minutes

Type: [System.Double](#)

The minutes.

seconds

Type: [System.Double](#)

The seconds.

Return Value

Type: [Double](#)

See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Tool.GetGradMinutesSeconds Method

Gets the grad minutes seconds.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static string GetGradMinutesSeconds (
    double grad
)
```

Parameters

grad

Type: [System.Double](#)

The grad.

Return Value

Type: [String](#)

See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Tool.GetHumanDistance Method

Gets the human distance.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static string GetHumanDistance(
    long lLengthInMeter
)
```

Parameters

lLengthInMeter

Type: [System.Int64](#)

The l length in meter.

Return Value

Type: [String](#)

See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Tool.GetHumanSize Method

Gets the size of the human.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static string GetHumanSize(  
    long lSizeInBytes  
)
```

Parameters

lSizeInBytes

Type: [System.Int64](#)

The l size in bytes.

Return Value

Type: [String](#)

See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Tool.ReadResourceAsString Method

Reads the resource as string.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static string ReadResourceAsString(  
    string strResourceName  
)
```

Parameters

strResourceName

Type: [System.String](#)

Name of the string resource.

Return Value

Type: [String](#)

See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Tool.Tool Fields

The [Tool](#) type exposes the following members.

Fields

	Name	Description
 	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: 15.0.0.0 (15)

Syntax

C#

```
public static readonly string ALLCHARS
```

Field Value

Type: [String](#)

See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Tool.ALLPANGRAMS Field

The allpangrams

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static readonly List<string> ALLPANGRAMS
```

Field Value

Type: [List\(String\)](#)

See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Tool.FOX Field

The quick brown fox jumps over a lazy dog.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static readonly string FOX
```

Field Value

Type: [String](#)

See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Tool.FRANZ Field

Franz jagt im komplett verwahrlosten Taxi quer durch Bayern.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static readonly string FRANZ
```

Field Value

Type: [String](#)

See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Tool.WILFRIED Field

Vom Ödipuskomplex maßlos gequält, übt Wilfried zyklisches Jodeln.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static readonly string WILFRIED
```

Field Value

Type: [String](#)

See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Tool.XYLOPHONMUSIK Field

Falsches Üben von Xylophonmusik quält jeden größeren Zwerg.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static readonly string XYLOPHONMUSIK
```

Field Value

Type: [String](#)

See Also

[Tool Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Windows Class

Inheritance Hierarchy

[System.Object](#)

SIGENCEScenarioTool.Tools.Windows

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static class Windows
```

The **Windows** type exposes the following members.

Methods

	Name	Description
 	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
 S	GetWPFScreenshot	Gets the WPF screenshot.
 S	OpenWebAdress	Opens the web adress.
 S	OpenWithDefaultApplication(FileInfo)	Opens the with default application.
 S	OpenWithDefaultApplication(String)	Opens the with default application.
 S	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: 15.0.0.0 (15)

Syntax

C#

```
public static BitmapSource GetWPFScreenshot(  
    Control control,  
    Nullable<int> iWidth = null,  
    Nullable<int> iHeight = null  
)
```

Parameters

control

Type: [System.Windows.Controls.Control](#)

The control.

iWidth (Optional)

Type: [System.Nullable\(Int32\)](#)

Width of the i.

iHeight (Optional)

Type: [System.Nullable\(Int32\)](#)

Height of the i.

Return Value

Type: [BitmapSource](#)

See Also

[Windows Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Windows.OpenWebAdress Method

Opens the web adress.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static Process OpenWebAdress(  
    string strURL  
)
```

Parameters

strURL

Type: [System.String](#)

The STR URL.

Return Value

Type: [Process](#)

See Also

[Windows Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Windows.OpenWithDefaultApplication Method

Overload List

	Name	Description
 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: 15.0.0.0 (15)

Syntax

C#

```
public static Process OpenWithDefaultApplication(  
    FileInfo fiFile  
)
```

Parameters

fiFile

Type: [System.IO.FileInfo](#)

The fi file.

Return Value

Type: [Process](#)

See Also

[Windows Class](#)

[OpenWithDefaultApplication Overload](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Windows.OpenWithDefaultApplication Method (String)

Opens the with default application.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static Process OpenWithDefaultApplication(  
    string strFile  
)
```

Parameters

strFile

Type: [System.String](#)

The STR file.

Return Value

Type: [Process](#)

See Also

[Windows Class](#)

[OpenWithDefaultApplication Overload](#)

[SIGENCEScenarioTool.Tools Namespace](#)

Windows.SaveWPFScreenshot Method

Saves the WPF screenshot.

Namespace: [SIGENCEScenarioTool.Tools](#)

Assembly: SIGENCEScenarioTool.Library (in SIGENCEScenarioTool.Library.dll) Version: 15.0.0.0 (15)

Syntax

C#

```
public static void SaveWPFScreenshot(  
    BitmapSource screenshot,  
    string strOutputFilename  
)
```

Parameters

screenshot

Type: [System.Windows.Media.Imaging.BitmapSource](#)

The screenshot.

strOutputFilename

Type: [System.String](#)

The string output filename.

See Also

[Windows Class](#)

[SIGENCEScenarioTool.Tools Namespace](#)